

**Before the
Federal Communications Commission
Washington, D.C. 20554**

In the Matter of

Inquiry Concerning Deployment of Advanced
Telecommunications Capability to All Americans
in a Reasonable and Timely Fashion

GN Docket No. 19-285

2020 BROADBAND DEPLOYMENT REPORT

Adopted: April 20, 2020**Released: April 24, 2020**

By the Commission: Commissioners O’Rielly and Carr issuing separate statements; Commissioners
Rosenworcel and Starks dissenting, and issuing separate statements.

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I. INTRODUCTION

1. The Federal Communications is charged with “encourag[ing] the deployment on a reasonable and timely basis of advanced telecommunications capability to all Americans . . . by removing barriers to infrastructure investment and by promoting competition in the telecommunications market.”¹ For the past three years, the Commission’s top priority has been closing the digital divide, in recognition that high-speed broadband and the digital opportunity it brings can be essential to innovation, economic opportunity, healthcare, and civic engagement in today’s modern society. We remain committed to ensuring that all Americans, including those in rural areas, Tribal lands, and disaster-affected areas, enjoy the benefits of a high-speed broadband connection.

2. Available evidence demonstrates that the digital divide continues to narrow as more Americans than ever before have access to high-speed broadband. The number of Americans lacking access to fixed terrestrial broadband service at 25/3 Mbps continues to decline, going down by more than 14% in 2018 and more than 30% between 2016 and 2018.² The number of Americans without access to 4G Long Term Evolution (LTE) mobile broadband with a median speed of 10/3 Mbps fell approximately 54% between 2017 and 2018.³ The vast majority of Americans—surpassing 85%—now have access to fixed terrestrial broadband service at 250/25 Mbps, a 47% increase since 2017.⁴ Over the same period, the number of Americans living in rural areas with access to such service increased by 85%.⁵ This progress has been fueled in part by an approximately \$80 billion investment in network infrastructure in 2018, the highest annual amount in at least the last decade.⁶ In 2019 alone, fiber broadband networks became available to roughly 6.5 million additional unique homes, the largest one-year increase ever, with smaller providers accounting for 25% of these new fiber connections.⁷ AT&T, Sprint, T-Mobile, and Verizon are also rapidly expanding their 5G capability, with 5G networks in aggregate now covering the majority of the country’s population, especially in urban areas, and more live launches planned for 2020.⁸

¹ 47 U.S.C. § 1302(a).

² See *infra* Fig. 1. When we provide broadband speed figures, we present both the download and upload speeds. In the case of 25/3 Mbps, for example, we refer to broadband service that has a download speed of 25 Mbps and an upload speed of 3 Mbps.

³ See *infra* Fig. 2b. Consistent with our conclusion in the *2019 Report*, we consider both fixed and mobile services as capable of meeting the definition of “advanced telecommunications capability.” *Inquiry Concerning the Deployment of Advanced Telecommunications Capability to All Americans in a Reasonable and Timely Fashion*, GN Docket No. 19-285, 2019 Broadband Deployment Report, 34 FCC Rcd 3857, 3860-61, para. 10 (2019) (*2019 Report*). We will continue to evaluate mobile deployment at speeds of 5/1 Mbps and 10/3 Mbps in this Report.

⁴ See *infra* Fig. 4.

⁵ *Id.*

⁶ See generally Patrick Brogan, Vice President for Industry Analysis, USTelecom, U.S. Broadband Investment Continued Upswing in 2018, at 1 (2019), <https://www.ustelecom.org/wp-content/uploads/2019/07/USTelecom-Research-Brief-Capex-2018-7-31-19.pdf>

⁷ Letter from Lisa R. Youngers, President and CEO, Fiber Broadband Association, to Marlene H. Dortch, Secretary, Federal Communications Commission, at 1 n.1, 2 n.5 (Dec. 16, 2019) (Fiber Broadband Association Dec. 16, 2019 *Ex Parte* Letter).

⁸ See AT&T, AT&T 5G Now Live for Consumers in 10 Markets (Dec. 13, 2019), https://about.att.com/story/2019/5g_launch.html (announcing live launch of AT&T 5G to consumers and businesses in the Birmingham, AL; Indianapolis; Los Angeles; Milwaukee; Pittsburgh; Providence, RI; Rochester, NY; San Diego, San Francisco, and San Jose, CA market areas, and plans to expand service availability to other markets

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3. With this Report, the Commission fulfills the Congressional directive to report each year on the progress made in deploying advanced telecommunications capability to all Americans.⁹ Given the compelling evidence before us, we find for the third consecutive year that advanced telecommunications capability is being deployed on a reasonable and timely basis. Despite this finding, our work to close the digital divide is not complete. The Commission will continue its efforts to ensure that all Americans have the ability to access broadband.

II. BACKGROUND

4. Section 706(b) of the Telecommunications Act of 1996 requires the Commission to annually “initiate a notice of inquiry concerning the availability of advanced telecommunications capability to all Americans (including, in particular, elementary and secondary schools and classrooms)”¹⁰ In conducting this inquiry, the Commission must “determine whether advanced telecommunications capability is being deployed to all Americans in a reasonable and timely fashion.”¹¹ If that determination is negative, the Commission “shall take immediate action to accelerate deployment of such capability by removing barriers to infrastructure investment and by promoting competition in the telecommunications market.”¹²

5. On May 29, 2019, the Commission released the *2019 Broadband Deployment Report* (*2019 Report*) in which we concluded that advanced telecommunications capability was being deployed to all Americans in a reasonable and timely fashion.¹³ Consistent with the statute, the Commission focused its analysis in the *2019 Report* on the progress made in the deployment of fixed and mobile services.¹⁴ Since the *2019 Report*, the Commission has continued to aggressively promote deployment of advanced telecommunications capability by taking a number of actions to improve the regulatory environment and advance broadband deployment.¹⁵

6. On October 23, 2019, the Commission released the *Fifteenth Broadband Deployment Report Notice of Inquiry* (*Notice*), seeking comment on how a range of factors may affect the deployment

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soon, as it works toward offering nationwide coverage in the first half of 2020); Sprint, Sprint 5g Overview (Nov. 1, 2019), <https://newsroom.sprint.com/sprint-5g-overview-1-2.htm> (touting Sprint 5G availability in parts of 9 cities—Atlanta, Chicago, Dallas-Ft. Worth, Houston, Kansas City, Los Angeles, New York City, Phoenix, and Washington, DC—as well as Sprint partnerships with multiple U.S. cities on Smart City applications leveraging Sprint’s 5G and IoT offerings); T-Mobile, T-Mobile 5G: It’s On! (Dec. 2, 2019), <https://investor.t-mobile.com/news-and-events/t-mobile-us-press-releases/press-release-details/2019/T-Mobile-5G-Its-On/default.aspx>; Verizon, When Will Verizon Have 5G? (Dec. 5, 2019), <https://www.verizon.com/about/our-company/5g/when-will-verizon-have-5g> (discussing current availability of Verizon’s 5G ultra-wideband service in parts of select cities, and plans for further rollouts in 2020).

⁹ 47 U.S.C. § 1302(b).

¹⁰ *Id.*

¹¹ *Id.* We note that the annual inquiry and determination continues to be required by section 706(b) despite Congress’s enactment of the RAY BAUM’S Act of 2018, which requires an assessment on the state of deployment of communications capability, including advanced telecommunications capability, as that term is used in section 706(b), in the biennial Communications Marketplace Report now required by section 13 of the Communications Act of 1934, as amended (Communications Act). See Consolidated Appropriations Act, 2018, Pub. L. No. 115-141, Div. P—RAY BAUM’S Act of 2018, §§ 401-402, 132 Stat. 348, 1087-90 (2018) (RAY BAUM’S Act of 2018); 47 U.S.C. § 163(b)(2) (added 2018); see also *Communications Marketplace Report et al.*, GN Docket No. 18-231 et al., Report, 33 FCC Rcd 12558, 12683-702, paras. 236-64 (Dec. 26, 2018) (*2018 Communications Marketplace Report*).

¹² 47 U.S.C. § 1302(b).

¹³ *2019 Report*, 34 FCC Rcd at 3858, 3896-97, paras. 4, 76.

¹⁴ *Id.* at 3859-60, paras. 8-9.

¹⁵ See *infra* Section V.

and availability of advanced telecommunications capability, and on whether and how to incorporate those factors into our section 706(b) analysis for both fixed and mobile services.¹⁶

III. EVALUATING DEPLOYMENT OF ADVANCED TELECOMMUNICATIONS CAPABILITY TO ALL AMERICANS IN A REASONABLE AND TIMELY FASHION

7. Consistent with past *Broadband Deployment Reports* and our proposal in the *Notice*, we holistically evaluate progress in the deployment of advanced telecommunications capability and whether that progress is occurring in a reasonable and timely fashion.¹⁷ Specifically, this Report will continue to evaluate deployment of fixed and mobile services over a five-year time period (2014-2018) using the same four categories presented in the *2018* and *2019 Reports*: (1) those with access to fixed services; (2) those with access to mobile LTE services; (3) those with access to both fixed *and* mobile LTE services; and (4) those with access to at least one of either fixed *or* mobile LTE services.¹⁸

8. We find substantial support in the record for continuing our use of a progress-based approach.¹⁹ As the Commission has previously found:

[A]nalyzing progress to determine whether deployment is occurring in a reasonable and timely fashion is the approach that is most consistent with the language of section 706, as the analysis of such progress enables the Commission to determine whether advanced telecommunications capability “is being deployed” in the manner that section 706 requires. The use of the present progressive tense—“is being deployed”—as well as the language requiring an evaluation of whether that deployment is “reasonable and timely” indicates that Congress intended that the Commission evaluate the current state of deployment to all Americans, not a rigid requirement that each and every American be served *at this moment*.²⁰

Examining the progress of deployment therefore best effectuates Congress’ charge to the Commission in section 706.

9. We agree with commenters that we must continue our efforts to close the digital divide and extend the reach of broadband deployment to all Americans.²¹ Section 706(a) mandates that we

¹⁶ See generally *Inquiry Concerning Deployment of Advanced Telecommunications Capability to All Americans in a Reasonable and Timely Fashion*, Fifteenth Broadband Deployment Report Notice of Inquiry, GN Docket No. 19-285, 34 FCC Rcd 10092 (2019) (*Notice*).

¹⁷ *2019 Report*, 33 FCC Rcd at 3859-60, para. 8; *Notice*, 34 FCC Rcd at 10094, para. 6; *Inquiry Concerning Deployment of Advanced Telecommunications Capability to All Americans in a Reasonable and Timely Fashion*, GN Docket No. 17-199, 2018 Broadband Deployment Report, 33 FCC Rcd 1660, 1663-64, paras. 10-13 (*2018 Report*).

¹⁸ *2019 Report*, 34 FCC Rcd at 3859, para. 8. See *infra* Section IV (discussing broadband deployment estimates and data sources for fixed and mobile services).

¹⁹ See, e.g., ACA Connects – America’s Communications Association (ACA) Comments at 3; ADTRAN, Inc. (ADTRAN) Comments at ii; CTIA Comments at 6; Fiber Broadband Association (Fiber Broadband Association) Comments at 1; Free State Foundation Comments at 3; ITTA Comments at 10; NCTA – The Internet and Television Association (NCTA) Comments at 1; USTelecom Comments at 12; Wireless Internet Service Providers Association (WISPA) Comments at 6; ADTRAN Reply at 2; Utilities Technology Council Reply at 4-5.

²⁰ *2018 Report*, 33 FCC Rcd at 1663, para. 11; see also *2019 Report*, 34 FCC Rcd at 3859-60, para. 8 (finding that use of a progress-based approach enables the Commission to conduct the section 706 inquiry in the manner the statute requires).

²¹ ACA Comments at 6-7; ADTRAN Comments at 14-15; Colville Confederated Tribes Comments at 13; Free State Foundation Comments at 10-11; Internet Innovation Alliance Comments at 7-8; INCOMPAS Comments at 9-10; ITTA Comments at 1-2; Next Century Cities Comments at 2; NCTA Comments at 7-8; National Digital Inclusion Alliance Comments at 4; USTelecom Comments at 16-17; Viasat, Inc. (Viasat) Comments at 3-4; American Library Association Reply at 3-5; Public Knowledge, Common Cause, and Next Century Cities (Public Knowledge et al.) Reply at 12-13.

continue to promote deployment of advanced telecommunications capability to all Americans,²² and even though “remarkable progress has been made[,]” it remains the case that “many people, particularly rural and Tribal areas, do not enjoy the fastest possible broadband speeds or even access to advanced telecommunications services.”²³ We therefore remain committed to closing the digital divide and ensuring that all Americans can share in the benefits of access to advanced telecommunications capability, and we will continue to monitor progress toward that goal. We agree with ACA that the Commission “refin[ing] and improv[ing] its universal service programs that subsidize buildout in hard-to-serve areas” is helping fuel the growth in broadband investment.²⁴ We also agree with commenters that urge the Commission to continue its work to expand access to spectrum to facilitate broadband deployment and 5G services in the future.²⁵ And we agree with ADTRAN that continuing to work with “state and local governments through the [Broadband Deployment Advisory Committee (BDAC)] process to help accelerate broadband deployment” is vital to increase broadband investment and adoption across America.²⁶

A. Defining Advanced Telecommunications Capability

10. Consistent with our conclusion in the *2019 Report*, we continue to consider both fixed and mobile services as capable of meeting the definition of “advanced telecommunications capability” under section 706.²⁷ This finding is consistent with the language of the statute, which defines advanced telecommunications capability “without regard to any transmission media or technology.”²⁸

11. The Commission concluded at the time of both the *2018 Report* and the *2019 Report* that mobile services were not full substitutes for fixed service, but that both services still independently met the statutory definition of advanced telecommunications capability.²⁹ The record before us provides some evidence that consumers increasingly rely on mobile broadband for accessing and sharing information, and they can substitute fixed and mobile broadband when accessing certain services and applications (such as e-mail or social media, for example).³⁰ Moreover, mobile wireless providers continue to improve their networks, notably through the deployment of 5G technology, which may have performance characteristics similar to fixed services in certain environments.³¹ Mobile wireless providers also continue to offer new retail data plans that make mobile service an increasingly-attractive alternative to fixed services.³²

²² 47 U.S.C. § 1302(a).

²³ Internet Innovation Alliance Comments at 7.

²⁴ ACA Comments at 5.

²⁵ See Colville Confederated Tribes Comments at 13; Free State Foundation Comments at 10-11; Public Knowledge et al. Comments at 35-37; WISPA Comments at 7-8; Consumer Technology Association (CTA) Reply at 7.

²⁶ ADTRAN Comments at 14-15.

²⁷ *2019 Report*, 34 FCC Rcd at 3860-61, para. 10.

²⁸ 47 U.S.C. § 1302(d)(1).

²⁹ *2019 Report*, 34 FCC Rcd at 3861-62, para. 11; *2018 Report*, 33 FCC Rcd at 1666-67, para. 18.

³⁰ CTIA Comments at 12-13 (citing Pew Research Center, Mobile Factsheet (June 12, 2019), <https://www.pewresearch.org/internet/fact-sheet/mobile/>), 19-20 (discussing the smartphone only trend)).

³¹ ADTRAN Comments at 6-7; Free State Foundation Comments at 8, 10; Internet Innovation Alliance Comments at 3-4. *But see* Public Knowledge et al. Comments at 19-21 (arguing 5G is still years away from being a fully realized commercial service).

³² See, e.g., Verizon Wireless, Single Connected Home Plans, <https://www.verizonwireless.com/plans/single-device-plan/> (last visited Mar. 26, 2020). AT&T has a mobile service that it optimizes for HD video streaming and offers 30GB mobile hotspot to connect other devices. AT&T Unlimited Elite, <https://www.att.com/plans/unlimited-data-plans/> (last visited Mar. 26, 2020); see also, Xfinity Mobile Plan Details,

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12. The record also provides substantial evidence, however, that fixed and mobile services often continue to be used in distinct ways, and that users tend to subscribe to both services concurrently and treat them as complements.³³ For example, a fixed broadband service subscriber cannot use this service while traveling. Similarly, in-home connected devices, such as smart lights, Internet-connected security devices, or smart thermostats, often include features that allow for their use outside of the home, and consumers are unlikely to be able to take full advantage of these remote monitoring capabilities without the benefit of a mobile broadband connection (in addition to their fixed broadband service).³⁴ Mobile broadband subscribers, meanwhile, may not be able to use their mobile devices as in-home hotspots to stream large quantities of high-definition video content (due to either plan restrictions or data limits).³⁵ While users may substitute between mobile and fixed broadband when accessing certain services and applications, the record indicates that they are not yet functional substitutes for all uses and customer groups.³⁶ Based on the record before us, we again find that fixed broadband and mobile wireless broadband services are not functional substitutes in all cases.³⁷ We also continue to conclude that both fixed and mobile services provide capabilities that satisfy the statutory definition of advanced telecommunications capability, and we will continue to examine the deployment of fixed and mobile wireless services, both individually and in conjunction with one another, for the purposes of this Report.

13. *Performance Benchmarks for Fixed Service.* We find that the current speed benchmark of 25/3 Mbps remains an appropriate measure by which to assess whether a fixed service is providing advanced telecommunications capability. We conclude that fixed services with speeds of 25/3 Mbps continue to meet the statutory definition of advanced telecommunications capability; that is, such services “enable[] users to originate and receive high-quality voice, data, graphics, and video telecommunications.”³⁸ This finding follows the proposal in the *Notice*, and the record reflects significant support for maintaining the current fixed 25/3 Mbps speed benchmark.³⁹ ITTA, for example, explains

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<https://www.xfinity.com/mobile/plan/details> (last accessed Mar. 26, 2020) (offering Xfinity Mobile customers up to five lines for phones, watches, or tablets, mix and match data options, and the ability to access LTE networks and any of Xfinity’s WiFi hotspots).

³³ New America Open Technology Institute and Access Now (Open Technology Institute & Access Now) Comments at 2-8; NTCA Comments at 2-8; Public Knowledge et al. Comments at 16-18; WISPA Comments at 2; see also Pew Research Center, Mobile Technology and Home Broadband 2019 at 21 (*available at* <https://www.pewresearch.org/internet/2019/06/13/mobile-technology-and-home-broadband-2019/>) (27% of respondents that do not subscribe to broadband at home state that a smartphone is not sufficient to do everything online that they need to do.).

³⁴ See, e.g., Krissy Rushing, *11 Smart Apps for Your Home*, <https://www.hgtv.com/design/remodel/mechanical-systems/voice-control-in-the-home> (last visited Mar. 26, 2020).

³⁵ See New America & Access Now Comments at 7-8; NCC Comments at 3-5; Public Knowledge et al. at 16-17; CWA Reply at 5-6; see also NTCA Comments at 2-5.

³⁶ Benton Foundation Comments at 9-10; Colville Confederated Tribes Comments at 3; INCOMPAS Comments at 5, 8-9; Next Century Cities Comments at 3-4; Open Technology Institute & Access Now Comments at 2-8; NTCA Comments at 1-3, 6; Public Knowledge et al. Comments at 18-21; WISPA Comments at 2; American Library Association Reply at 6; CWA Reply at 6-11; Public Knowledge et al. Reply at 8-9; USTelecom Reply at 8; Utilities Technology Council Reply at 5; WISPA Reply at 3-5; see also ITTA Comments at 7-8, 12 (asserting that Commission should continue to evaluate deployment of fixed and mobile services both individually and in conjunction with each other).

³⁷ *2019 Report*, 34 FCC Rcd at 3861-62, para. 11.

³⁸ 47 U.S.C. § 1302(d)(1); see also NCTA Reply at 2 (explaining that “the statutory definition of advanced telecommunications capability is a functional one”).

³⁹ See ACA Comments at 2; ADTRAN Comments at 7-8; Free State Foundation Comments at 3; Internet Innovation Alliance Comments at 6; ITTA Comments at 3-6; NCTA Comments at 2; USTelecom Comments at 10; WISPA Comments at 4-5; ADTRAN Reply at 3-4; NCTA Reply at 1; USTelecom Reply at 6; WISPA Reply at 6-7.

that “[b]y any reasonable account, the features, functions, and applications enabled by 25/3 Mbps broadband still qualify as ‘advanced’ and ‘high-quality.’”⁴⁰ We agree with WISPA that since the 2015 adoption of the 25/3 Mbps benchmark, “the speed required for the applications that most broadband consumers use has not changed substantially . . . and actual subscriptions have not yet consistently surpassed the benchmark level.”⁴¹

14. We are cognizant of current market trends and the demand for robust networks, including 4K streaming, online gaming, and high definition (HD) video streaming. Some commenters submit that such factors should result in us increasing the speed benchmark.⁴² Although we agree that there is an “increased appetite”⁴³ for a number of new devices and applications and “trends in the United States show that the average speeds are increasing every year,”⁴⁴ the definition of advanced telecommunications capability in section 706 does not suggest that “advanced” necessarily means the highest quality service possible.⁴⁵ Furthermore, we agree with NCTA that “the current demand for multiple 4K video streams in a household is minimal because the use of 4K is still nascent and the majority of households consist of only one or two people” and as such does not provide a sufficient rationale to change the current fixed speed benchmark.⁴⁶ We also agree with NCTA that “adopting a ‘forward-looking’ or ‘aspirational’ definition, as some recommend, distorts the purpose of the analysis Congress has required the Commission to perform and may prove to be counter-productive in terms of new investment.”⁴⁷ Therefore, we will not determine our fixed speed benchmark based on the maximum speeds available to consumers, such as gigabit service, as some commenters suggest.⁴⁸ The Commission’s data shows that in the areas where gigabit service is available, only 4% of Americans living in those areas are in fact subscribing to it.⁴⁹

⁴⁰ ITTA Comments at 4-5; *see also* Internet Innovation Alliance Comments at 6 (“[W]hat Congress sought to measure – the deployment of advanced telecommunications services in a reasonable and timely fashion – is captured by the current measure.”).

⁴¹ WISPA Comments at 4-5; *see also* USTelecom Comments at 10 (stating that even with new technologies, “current usage patterns do not require more bandwidth than 25/3 Mbps”).

⁴² Benton Foundation Comments at 10; Fiber Broadband Association Comments at 4-5; INCOMPAS Comments at 4; Next Century Cities Comments at 4-5; Open Technology Institute and Access Now Comments at 3-4; Public Knowledge et al. Comments at 1-4; CWA Reply at 4-5; Public Knowledge et al. Reply at 1-2; Utilities Technology Council Reply at 3-4; Letter from Lindsay Stern, Public Knowledge, to Marlene H. Dortch, Secretary, FCC, GN Docket No. 19-285, at 1-2 (filed Jan. 21, 2020) (Public Knowledge et al. Jan. 21, 2020 *Ex Parte* Letter); Letter from Lindsay Stern, Public Knowledge, to Marlene H. Dortch, Secretary, FCC, GN Docket No. 19-285, at 1-3 (filed Jan. 30, 2020); New Networks Institute, Statement and Refreshing the Record, GN Docket No. 19-285, at 3 (filed Feb. 20, 2020) (New Networks February 20, 2020 Statement).

⁴³ Next Century Cities Comments at 5.

⁴⁴ Open Technology Institute and Access Now Comments at 3-4.

⁴⁵ 47 U.S.C. § 1302(d)(1).

⁴⁶ NCTA Reply at 3-4; *see also* ADTRAN Comments at 7-8 (“While 4K TV purchases have been growing, they still do not comprise a majority of the new television set purchases and 4K TV content is still limited.”).

⁴⁷ NCTA Reply at 3; *see also* WISPA Comments at 6 (“[T]he availability of advanced services is an incremental process that must be measured empirically based on year-over-year advancement rather than by setting artificial a priori goals that may be more aspirational than realistic.”); ADTRAN Reply at 5 (explaining that the benchmark “is not intended as an aspirational goal”); NCTA Reply at 3 (“While Congress has in the past asked the Commission to develop a forward-looking broadband plan, that is not the purpose of this report.”); USTelecom Reply at 6 (“There is no basis upon which the Commission could reasonably conclude that the time is ripe for a precipitous increase in the Section 706 speed benchmark.”).

⁴⁸ *See, e.g.*, INCOMPAS Comments at 4, 6-7; Fiber Broadband Association Comments at 4 n.6.

⁴⁹ *See* FCC, Fixed Broadband Deployment Data from FCC Form 477, Data as of December 31, 2018.

15. Notably, while 25/3 Mbps remains our fixed speed benchmark for purposes of conducting our inquiry under section 706, we continue our practice of showing progress of fixed services at multiple speed thresholds, including three speeds above the benchmark (50/5 Mbps, 100/10 Mbps, and 250/25 Mbps), to enable the Commission and the public to monitor consumer usage trends and marketplace developments. We agree with Free State Foundation and NCTA that we should assess a wider range of speed tiers,⁵⁰ but we continue to find, consistent with the *2019 Report* and longstanding Commission precedent, that a “single fixed speed benchmark provides a useful and administrable way of conducting our inquiry.”⁵¹ Furthermore, we maintain that a single fixed benchmark allows us to more easily understand consumer usage trends and marketplace developments and to track progress over time. We evaluate progress using a variety of speed tier metrics and categories across technologies.⁵²

16. *Performance Benchmarks for Mobile Service.* We again evaluate deployment of advanced telecommunications capability for mobile services using multiple metrics instead of relying on a single benchmark.⁵³ A single benchmark is unreliable in the mobile wireless context due to the inherent variability in the performance characteristics of mobile service both geographically and temporally, as we have noted in previous reports.⁵⁴ Accordingly, we first analyze provider-reported 4G LTE coverage based on the Commission’s Form 477 data, where service providers claim a minimum advertised speed of 5/1

⁵⁰ Free State Foundation Comments at 3; NCTA Comments at 2.

⁵¹ See *2019 Report*, 34 FCC Rcd at 3863, para. 15; *2018 Report*, 33 FCC Rcd at 1669, para. 25; see also *Inquiry Concerning the Deployment of Advanced Telecommunications Capability to All Americans in a Reasonable and Timely Fashion, and Possible Steps to Accelerate Such Deployment Pursuant to Section 706 of the Telecommunications Act of 1996, as Amended by the Broadband Data Improvement Act*, GN Docket No. 15-191, 2016 Broadband Deployment Report, 31 FCC Rcd 699, 707, para. 19 (*2016 Report*); *Inquiry Concerning the Deployment of Advanced Telecommunications Capability to All Americans in a Reasonable and Timely Fashion, and Possible Steps to Accelerate Such Deployment Pursuant to Section 706 of the Telecommunications Act of 1996, as Amended by the Broadband Data Improvement Act*, GN Docket No. 14-126, 2015 Broadband Progress Report and Notice of Inquiry on Immediate Action to Accelerate Deployment, 30 FCC Rcd 1375, 1391, para. 23 (*2015 Report*).

⁵² While some commenters urge the Commission to adopt a benchmark based on an alternative metric from speed, the proffered approaches fail to provide a methodology or reliable data sources to implement their suggestions. See Benton Foundation Comments at 10 (urging the Commission “to set a new benchmark that better represents marketplace realities”); CTIA Comments at 17 (suggesting that “rigid speed benchmarks are an inadequate way to measure whether deployment is reasonable and timely” and instead, “the Commission should consider a range of data that better reflect the innovative and growing mobile economy, and the diversity of use cases consumers increasingly adopt”); Fiber Broadband Association Comments at 4-5 (suggesting the Commission “increase its current speed benchmark from 25/3 Mbps to at least 100/10 Mbps, and preferably higher, to reflect current and near-term use”); INCOMPAS Comments at 4 (suggesting the Commission “adopt 1 Gbps as the fixed broadband benchmark”); Next Century Cities Comments at 5 (“A standard of at least 50/10 Mbps will help ensure that households are not limited by inadequate connections.”); Open Technology Institute and Access Now Comments at 3-4 (“The Commission should increase the benchmark for advanced telecommunications capability to ensure that the definition adequately matches the average speed consumed by Americans.”); Public Knowledge et al. Comments at 2 (“Technological innovation and consumer demand for faster broadband warrant the FCC to update its benchmark speed from 25 Mbps to 100 Mbps downstream.”); CWA Reply at 5-6 (“The Commission should raise its broadband benchmark to 100/10 Mbps to encourage high-speed broadband deployment that will ensure the United States leads the world in Internet speeds and deployment instead of simply struggling to keep up with global speeds.”). But see ADTRAN Reply at 3-4 (arguing that “in order to justify a higher benchmark, [Next Century Cities] relies on increased average monthly usage, while [Open Technology Institute] relies on increased average speeds . . . [and] [t]he statutory definition does not include any reference to average speeds that consumers use or purchase”).

⁵³ *2019 Report*, 34 FCC Rcd at 3863-64, paras. 16-17; *2018 Report*, 33 FCC Rcd at 1672-74, paras. 30-34.

⁵⁴ *2019 Report*, 34 FCC Rcd at 3863, para. 16; *2018 Report*, 33 FCC Rcd at 1672, para. 30.

Mbps.⁵⁵ We do not assert that 5/1 Mbps is a mobile advanced telecommunications capability benchmark; rather, we use the 5/1 Mbps minimum advertised speed as a check to ensure that the 4G LTE deployed to an area has sufficient backhaul and other capabilities to offer LTE in a manner consistent with being an advanced telecommunications capability.⁵⁶ Second, in areas where providers claim to provide 4G LTE with a minimum 5/1 Mbps advertised speed, we supplement provider-reported data with Ookla speed-test data, which identify areas showing median speed tests of at least 10/3 Mbps. This supplemental approach attempts to address certain limitations of the current Form 477 mobile data, while helping the Commission understand the extent to which American consumers today are receiving speeds higher than 5/1 Mbps.⁵⁷ By continuing our prior approach, we also can more readily assess progress over time.⁵⁸

17. We find, therefore, that retaining the current approach of using multiple metrics is appropriate for this Report at this time.⁵⁹ We agree with CTIA that this Report should continue to focus on the ongoing nature of advanced telecommunications service deployment.⁶⁰ We also agree that mobile wireless service capability should be assessed holistically, given the inherent variability of wireless service. Finally, we will also begin collecting 5G New Radio (NR) deployment data this year, to ensure that both the Commission and consumers have an accurate account of 5G deployment.⁶¹

⁵⁵ The Form 477 Instructions require each provider to indicate their minimum advertised speeds and where users should expect to receive those advertised speeds. For convenience, we refer to minimum advertised speeds throughout this Report. Form 477 Instructions at 25, available at <https://us-fcc.app.box.com/v/Form477Instructions>. The Commission has recognized certain limitations associated with its Form 477 data collection and recently amended that collection to require, among other things, that mobile providers report 5G technology deployments and submit broadband and subscriber data at the census-tract level. *Establishing the Digital Opportunity Data Collection; Modernizing the FCC Form 477 Data Program*, WC Docket Nos. 19-195, 11-10, Report and Order and Second Further Notice of Proposed Rulemaking, 34 FCC Rcd 7505, 7524, para. 44, 7530, para. 58 (2019) (*Digital Opportunity Data Collection Order*). The Commission also sought comment on steps to obtain more accurate and reliable mobile broadband deployment data, including the collection of crowdsourced and other on-the-ground data. *Id.* at 7549-59, paras. 112-34.

⁵⁶ 2019 Report, 34 FCC Rcd at 3863, para. 16; *see also* 47 U.S.C. § 1302(d) (defining advanced telecommunications capability as capable of enabling “users to originate and receive high-quality voice, data, graphics, and video telecommunications”). In previous reports, the Commission has concluded that LTE at 5/1 Mbps is a starting point for the analysis that enables consumer use consistent with the requirements of 47 U.S.C. § 1302, and speeds of 5/1 Mbps or higher “are accepted by industry as consistent with an LTE network.” 2019 Report, 34 FCC Rcd at 3863, para. 16; 2018 Report, 33 FCC Rcd at 1672-73, paras. 31-32.

⁵⁷ 2019 Report, 34 FCC Rcd at 3864, para. 16; 2018 Report, 33 FCC Rcd at 1672-73, paras. 31-32; *see also Digital Opportunity Data Collection Order*, 34 FCC Rcd at 7549-59, paras. 112-34 (seeking comment regarding how to obtain and verify more accurate mobile coverage data).

⁵⁸ 2019 Report, 34 FCC Rcd at 3864, para. 16 (“Overall, retaining this methodology allows consistent metrics by which we can evaluate whether mobile advanced telecommunications capability is improving for American consumers.”); CTIA Comments at 5; Free State Foundation Comments at 1-2.

⁵⁹ 47 U.S.C. § 1302(d)(1); 2019 Report, 34 FCC Rcd at 3863-64, paras. 16-17. The record does not justify altering the Commission’s approach of analyzing both Form 477 data and Ookla data at speeds of 5/1 Mbps and 10/3 Mbps, respectively. *See* Free State Foundation Comments at 1-3, 6, 8 (agreeing with the 5/1 Mbps, 10/3 Mbps approach although also advocating for a wider range of speed tiers to be analyzed if available); CTIA Comments at 17-24 (arguing that the Commission should adopt a more “holistic approach” that assesses factors related to consumers wireless experience beyond speeds and coverage data); *see also* 2019 Report, 34 FCC Rcd at 3864, para. 17 (rejecting CTIA’s alternative methodology proposal for assessing the mobile experience).

⁶⁰ *See* CTIA Comments at 5-6.

⁶¹ *Digital Opportunity Data Collection Order*, 34 FCC Rcd at 7524, para. 44; *cf.* ADTRAN Comments at 6-7 (advising the Commission to collect “any information it can on 5G deployments” to accurately reflect 5G deployment in future assessments). *But see* INCOMPAS Comments at 3 (arguing that now is the time to reassess
(continued....))

18. *Other Benchmarks.* We decline suggestions of some commenters to adopt additional benchmarks. While several commenters suggest adoption of a latency benchmark,⁶² they do not offer a reliable and sufficiently comprehensive data source for such analysis.⁶³ As we concluded in last year's Report, we decline to incorporate latency into our section 706 analysis.⁶⁴ We therefore disagree with FBA's assertion that the Commission should use "a broadband experience metric [based on reliability, bandwidth, and latency, which] would better reflect how consumers are increasingly examining broadband service."⁶⁵

19. Additionally, we decline the requests of some commenters to consider data allowances and affordability.⁶⁶ For purposes of this Report, such metrics fall outside the scope of our section 706 inquiry.⁶⁷ We reiterate our finding in the *2019 Report* that "[w]hile factors such as data allowances or pricing may affect consumers' use of advanced telecommunications capabilities or influence decisions concerning the purchase of these services in the first instance, such considerations do not affect the underlying determination of whether advanced telecommunications capability has been deployed and made available to customers in a given area."⁶⁸ Notably, commenters in support of including non-

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performance benchmarks due to carriers' beginning deployment of 5G-capable networks); NCC Comments at 5-6 (advocating switching from LTE to a 5G standard for this report).

⁶² American Library Association Reply at 3; Benton Foundation Comments at 6; Public Knowledge et al. Comments at 12-13; *see also* Fiber Broadband Association Comments at 2-3 (advocating adoption of a "broadband experience metric" based on reliability, bandwidth, and latency).

⁶³ We also reached this conclusion based on the records in the two most recent reports, as well. *See 2019 Report*, 34 FCC Rcd at 3865, para. 19; *2018 Report*, 33 FCC Rcd at 1674-75, para. 36.

⁶⁴ *2019 Report*, 34 FCC Rcd at 3865, para. 19 (finding that "[a]pplying a latency benchmark for all broadband services, whether fixed terrestrial, satellite, or mobile broadband, that would exclude from our section 706 analysis any consideration of broadband services that, on their face, would appear to provide consumers with the relevant capabilities articulated in section 706(d)(1), would prevent a reliable or complete assessment of the deployment of advanced telecommunications capability"); *see also* WISPA Reply at 7 ("And while latency may have some minor impacts on the user experience for such activities as gaming and video conferencing, it does not render broadband capability 'unavailable' as a general matter even for users interested in these discrete capabilities.").

⁶⁵ Fiber Broadband Association Comments at 2-3.

⁶⁶ *See* Benton Foundation Comments at 4; National Digital Inclusion Alliance Comments at 1-2; Open Technology Institute & Access Now Comments at 3; Next Century Cities Comments at 1-2; CWA Reply at 3; Letter from Access Now, Benton Institute for Broadband & Society, Common Cause, MediaJustice, National Hispanic Media Coalition, New America's Open Technology Institute, and Public Knowledge, to Marlene H. Dortch, Secretary, Federal Communications Commission at 3 (Dec. 19, 2019); Letter from the Leadership Conference on Civil and Human Rights, American Civil Liberties Union, Asian Americans Advancing Justice, Common Cause, Communications Workers of America, National Consumer Law Center, on behalf of its low-income clients, National Hispanic Media Coalition, United Church of Christ, and OC Inc. to Marlene H. Dortch, Secretary, Federal Communications Commission (Feb. 4, 2020); Public Knowledge et al. Jan. 21, 2020 *Ex Parte* Letter at 5. *But see* WISPA Reply at 8-9 ("Like variations in latency, price differentials for broadband service in the real world are incremental not vast and therefore do not suggest that service is unobtainable at a reasonable cost in areas where it is available for purchase.").

⁶⁷ ADTRAN Reply at 5 (explaining that the benchmark "is not intended as an aspirational goal"); NCTA Reply at 3 ("[A]dopting a 'forward-looking' or 'aspirational' definition, as some recommend, distorts the purpose of the analysis Congress has required the Commission to perform and may prove to be counter-productive in terms of new investment."); WISPA Reply at 8-9 (explaining that latency and pricing information "falls outside the scope of data subject to [s]ection 706 analysis").

⁶⁸ *2019 Report*, 34 FCC Rcd at 3866, para. 19.

performance metrics fail to cite reliable, comprehensive data sources that we could use, or offer sound methodologies for incorporating these metrics into the section 706 inquiry.⁶⁹

B. Demographic Information

20. Section 706(c) directs the Commission to compile a list of geographical areas that are not served by any provider of advanced telecommunications capability and, to the extent that data from the Census Bureau are available, to determine, for each unserved area, the population, the population density, and the average per capita income.⁷⁰ We include a demographic data analysis below in Section IV.C.⁷¹ and show the availability of advanced telecommunications capability on a county-by-county basis with demographic information in Appendix 4.⁷²

C. Schools and Classrooms

21. Section 706(b) also specifies that our annual inquiry concerning the availability of advanced telecommunications capability to all Americans must include “elementary and secondary schools and classrooms.”⁷³ As in the *2019 Report*, we continue to assess the current state of deployment in elementary and secondary schools in Section IV.F. below, using a short-term and long-term goal for broadband connectivity to schools of 100 Mbps per 1,000 students and staff, and 1 Gbps per 1,000 students and staff, respectively.⁷⁴

D. Tribal Lands

22. We find that Tribal lands continue to face significant obstacles to broadband deployment. As reflected in both the *2018 Report* and *2019 Report*, deployment of advanced telecommunications capability on certain Tribal lands, particularly rural Tribal lands, lags behind deployment in other, non-Tribal areas.⁷⁵ Accordingly, the *Notice* sought comment on whether deployment on Tribal lands still falls behind other areas and on additional considerations, such as difficulties involving rights-of-way, that could be preventing deployment that would otherwise occur.⁷⁶ We recognize the need to promote and encourage the availability of broadband on Tribal lands as many of these lands are located disproportionately in rural areas, which tend to be less densely populated than rural non-Tribal areas. Further, the remote, isolated nature of these areas combined with challenging terrain and lower incomes

⁶⁹ See, e.g., Benton Foundation Comments at 4; National Digital Inclusion Alliance Comments at 1-2; Open Technology Institute & Access Now Comments at 3; Next Century Cities Comments at 1-2; CWA Reply at 3. But see NCTA Reply at 2 (“None of the parties seeking to change the threshold offers any evidence that 25/3 Mbps services no longer meet the statutory definition of advanced telecommunications capability or that such connections are incapable of handling the important functions they identify, such as finding employment or conducting research for homework.”); USTelecom Reply at 6-7 (submitting that while quality of service and affordability “are important issues that the Commission addresses in other proceedings, they are not related to whether a consumer has access to broadband, the focus of this inquiry”); WISPA Reply at 7-9 (explaining that the record does not support including additional metrics that are not directly relevant to the section 706 inquiry). We similarly decline to evaluate provider conformance with state-level deployment commitments. See New Networks February 20, 2020 Statement at 7-9.

⁷⁰ 47 U.S.C. § 1302(c).

⁷¹ See *infra* Section IV.C.

⁷² See *infra* Appx. 4; see also Benton Foundation Comments at 7 (supporting use of demographic information).

⁷³ 47 U.S.C. § 1302(b).

⁷⁴ See *infra* Section IV.F; see also ADTRAN Comments at 8-9 (supporting use of the short and long term goals); Colville Confederated Tribes Comments at 5 (supporting use of “1 Gbps per 1,000 students and staff”).

⁷⁵ *2019 Report*, 34 FCC Rcd at 3866, para. 22, 3883-85, paras. 44-46, Figs. 10 and 11; *2018 Report*, 33 FCC Rcd at 1681-86, paras. 50-57.

⁷⁶ *Notice*, 34 FCC Rcd at 10097, para. 15.

increase the cost of network deployment and entry, thereby reducing the profitability of providing service.⁷⁷ Although the record here is limited, it confirms that broadband deployment on Tribal lands continues to lag behind compared to other rural areas.⁷⁸ The Benton Foundation explains that “[t]he challenge of deploying broadband to tribal lands is exacerbated by poverty and low population density as well as tough terrain that increases construction and operating costs;” and “on Navajo lands in the Southwest, many people live in buildings, like converted tool sheds and traditional Navajo hogans, that the federal government does not recognize as dwelling units.”⁷⁹ Colville Confederated Tribes contends that “[t]he digital divide has only grown larger over the last decade as other rural areas have seen significant increases in broadband access availability while Rural Native communities lack access.”⁸⁰

23. Because of challenges in accounting for all types of Tribal homes and Tribal lands and obstacles to infrastructure investment, we agree with commenters that more work is needed to spur broadband deployment in these areas.⁸¹ We therefore find it critical to continue our efforts to collect, monitor, and analyze any relevant data on Tribal lands. Below, in Section IV.D., we present our measurement of deployment data on Tribal lands, acknowledging the challenges to increasing broadband services in these areas.

IV. BROADBAND DEPLOYMENT AND AVAILABILITY

A. Data Sources and Methodologies

24. We continue to rely primarily on the Commission’s Form 477 deployment data to evaluate consumers’ broadband options for fixed terrestrial and mobile services.⁸² We agree with commenters that the Form 477 data “remains the most comprehensive data” available to complete our section 706 inquiry.⁸³ The Form 477 deployment data is also available to the public, which increases the transparency of our analysis and permits the public to independently assess our broadband service deployment data.⁸⁴ The Commission has been collecting Form 477 deployment data for several years,

⁷⁷ *Id.* at 10096-97, paras. 14-15; see also FCC, *Report on Broadband Deployment in Indian Country, Pursuant to the Repack Airwaves Yielding Better Access for Users of Modern Services Act of 2018*, at 2, 19, submitted to the Senate Committee on Commerce, Science, and Transportation; House of Representatives Committee on Energy and Commerce (May 1, 2019): <https://docs.fcc.gov/public/attachments/DOC-357269A1.pdf>; *Rural Digital Opportunity Fund; Connect America Fund*, WC Docket Nos. 10-90, 19-126, Report and Order, 35 FCC Rcd 686 (2020) (*Rural Digital Opportunity Fund Order*) (creating a Rural Digital Opportunity Fund to target support to areas that lack access to 25/3 Mbps broadband service, including prioritizing bids to serve Tribal lands).

⁷⁸ Benton Foundation Comments at 12-13; Colville Confederated Tribes Comments at 6; Public Knowledge et al. Reply at 13.

⁷⁹ Benton Foundation Comments at 13-14.

⁸⁰ Colville Confederated Tribes Comments at 6.

⁸¹ Public Knowledge et al. Reply at 13; Colville Confederated Tribes Comments at 13.

⁸² Some estimates for years prior to 2018 may differ from last year’s *Report* because some filers have revised their Form 477 data since the 2019 *Report*. For this year’s *Report*, we also exclude deployment data for one service provider due to ongoing concerns about the reliability of this filer’s data.

⁸³ See, e.g., ADTRAN Comments at 9; NCTA Comments at 4; USTelecom Comments at 12-13; USTelecom Reply at 7; WISPA Reply at 9-10; see also 2019 *Report*, 34 FCC Rcd at 3868, para. 25; 2018 *Report*, 33 FCC Rcd at 1677, para. 43 (concluding the Form 477 data remains the most thorough and accurate data available to the Commission for the section 706 analysis).

⁸⁴ FCC, Form 477 Resources, <https://www.fcc.gov/economics-analytics/industry-analysis-division/form-477-resources>. All Form 477 data used in this Report has been certified as accurate by the filers. We note that the Report’s analysis may understate or overstate consumers’ options for services to the extent that broadband providers fail to report data or misreport data. See FCC, *Explanation of Broadband Deployment Data* (Nov. 20, 2017), <https://www.fcc.gov/general/explanation-broadband-deployment-data> (describing quality and consistency checks performed on providers’ submitted data and explaining any adjustments made to the Form 477 data as filed).

and so it provides a consistent yardstick against which to measure year-over-year progress of broadband deployment.

25. We have acknowledged that the Form 477 data collection is imperfect—which is why the Commission established the new Digital Opportunity Data Collection that will ultimately collect more precise fixed terrestrial, and has proposed to collect more precise mobile wireless, data than the Form 477 broadband deployment data.⁸⁵ While many commenters offer criticism of the Form 477 data,⁸⁶ as well as recommendations for how to improve the Commission’s data,⁸⁷ this Report is not the appropriate vehicle for the Commission to make changes to the data collection.⁸⁸

26. Form 477 deployment data report service at the census block level.⁸⁹ For purposes of this Report, a census block is classified as served if the Form 477 data indicate that service is available anywhere in the census block, which has been the case since the Commission began collecting broadband deployment data in 2014.⁹⁰ Therefore, it is not necessarily the case that every household, housing unit, or person will have coverage from a given service in a census block that this Report indicates is served. Therefore, as the Commission has previously explained, this analysis likely overstates the coverage experienced by some consumers, especially in large or irregularly-shaped census blocks.⁹¹ We therefore acknowledge that this analysis may overstate the deployment of fixed and mobile services. Nonetheless, we continue to find that using a consistent unit of measurement (the census block), as well as our threshold for considering service to be deployed in a census block, is an effective tool for measuring progress over time. We report an analysis of deployment for fixed and mobile LTE services using 2010

⁸⁵ See generally *Digital Opportunity Data Collection Order*. In the *Digital Opportunity Data Collection Order*, the Commission also took the important immediate step of requiring facilities-based mobile-broadband and voice providers to submit their subscriber data by census tract rather than by state. *Digital Opportunity Data Collection Order*, 34 FCC Rcd at 7529-33, paras. 57-65.

⁸⁶ See, e.g., American Library Association Reply at 2; Benton Foundation Comments at 3, 8; Colville Confederated Tribes Comments at 8; Public Knowledge et al. Comments at 8-10; Open Technology Institute & Access Now Comments at 3; CWA Reply at 11-12; Public Knowledge et al. Reply at 4.

⁸⁷ See, e.g., CWA Reply at 11; Public Knowledge et al. Reply at 5-7; Letter from Cat Blake, Senior Program Manager, Next Century Cities, to Marlene H. Dortch, Secretary, FCC, at 2 (Nov. 27, 2019).

⁸⁸ *Notice*, 34 FCC Rcd at 10099, para. 20.

⁸⁹ The Commission’s instructions for completing Form 477 state the following in this regard: “For purposes of this form, fixed broadband connections are available in a census block if the provider does, or could, within a service interval that is typical for that type of connection—that is, without an extraordinary commitment of resources—provision two-way data transmission to and from the Internet with advertised speeds exceeding 200 kbps in at least one direction to end-user premises in the census block.” FCC, FCC Form 477 Local Telephone Competition and Broadband Report Instructions at 17 (2016) (pertinent to the data on which this Report is based), <https://us-fcc.box.com/v/Form477InstThruJune19> (2018 Form 477 Instructions); FCC, FCC Form 477 Local Telephone Competition and Broadband Report Instructions at 18 (2019) (2019 Form 477 Instructions) (current version), <https://transition.fcc.gov/form477/477inst.pdf>.

⁹⁰ For the purposes of Form 477, fixed broadband connections are “available” in a census block “if the provider, does, or could, within a service interval that is typical for that type of connection—that is, without an extraordinary commitment of resources—provision two-way data transmission . . . in at least one direction to end-user premises in the census block.” See Glossary of Terms Used in FCC Form 477 (for filings through June 30, 2019), <https://us-fcc.app.box.com/v/Form477GlossaryThruJune19>. We reject Utilities Technology Council’s argument that our methodology should evaluate individual technologies at the census block level. Utilities Technology Council Reply at 2, 6. It is unclear how this would better inform our analysis of the deployment of services to residents in a specific census block.

⁹¹ See *2019 Report*, 34 FCC Rcd at 3869, para. 25 n.92; *2018 Report*, 33 FCC Rcd at 1677, para. 43.

census block population data that the Commission staff has updated to account for population growth and economic development.⁹²

27. We note that the Commission recently released the Form 477 data for June 2019.⁹³ This Report maintains our practice of analyzing the most recent year-end data, which in this case is for 2018. We note that the June 2019 data demonstrate continuing progress in deployment.⁹⁴

28. *U.S. Territories.* We believe the Form 477 deployment data, as of December 31, 2018, provide the most reliable and comprehensive available data that is currently available regarding the current deployment of broadband services in the U.S. Territories. Neither the *2018 Report* nor the *2019 Report* included data from the U.S. Territories in overall national deployment figures for the United States, including in the figures showing the five-year progression of deployment, because of anomalies in the historical deployment data for Puerto Rico and the U.S. Virgin Islands.⁹⁵ Puerto Rico and the U.S. Virgin Islands account for over 92% of the total combined population of the U.S. Territories; therefore, presenting historical data for the U.S. Territories would likely misrepresent the progress in deployment that has occurred in these areas from 2014 to 2018. Thus, figures that present deployment data from 2014-2018 do not include U.S. Territories data. Nevertheless, we do include data from the U.S. Territories in the national deployment figures wherever possible,⁹⁶ including in Figure 3e, where we present the overall state of fixed and mobile deployment data for the full United States.⁹⁷

⁹² Commission staff developed population estimates for 2011-18 by updating the 2010 census block population estimates. These estimates are based upon annual U.S. Census mid-year county (or county-equivalent) level population and housing unit estimates for the fifty states, the District of Columbia, and Puerto Rico. These data are used in conjunction with U.S. Census Bureau TIGER data to indicate new roads, that is, new housing development, to distribute population amongst the census blocks comprising each county (or county-equivalent). Federal Communications Commission, Staff Block Estimates, <https://www.fcc.gov/reports-research/data/staff-block-estimates>. Next Century Cities argues that overstatement may be over 100% in rural counties based upon a landmass analysis. Next Century Cities Comments at 6. We measure deployment by population rather than land area because providers of fixed services likely build their networks where people live not where there is land. For example, there are 3.5 million square miles of land area encompassed in the 11.1 million census blocks in the United States but only 7.4 million of the census blocks are populated and these census blocks only account for 2.4 million of the 3.5 million square miles of land area in the United States.

⁹³ *FCC Releases Form 477 Data on Broadband Deployment as of June 30, 2019*, WC Docket No. 11-10, Public Notice, DA 20-262 (Mar. 12, 2020).

⁹⁴ Form 477 Data as of June 30, 2019 is available at <https://www.fcc.gov/general/broadband-deployment-data-fcc-form-477>.

⁹⁵ See *2019 Report*, 34 FCC Rcd at 23, para. 3867; *2018 Report*, 33 FCC Rcd at 1678, para. 44. The historical data suggests a 20.9 percentage point reduction in the deployment in the U.S. Territories between 2014 and 2015, and a 21.7 percentage point increase in deployment between 2015 and 2016. *2019 Report*, 34 FCC Rcd at 3878, para. 39, Fig. 5. In addition, the year-end 2017 deployment data most likely significantly overstates deployment in Puerto Rico and the U.S. Virgin Islands at that time, because the data do not reflect infrastructure damage caused by Hurricanes Maria and Irma, even though these data postdate the hurricanes and should reflect such damage. See *2019 Report*, 34 FCC Rcd at 3869, para. 26 and 3877-78, para. 39. We agree with Colville Confederate Tribes that we should include “all data from every state and territory.” Colville Confederate Tribes Comments at 13. While the *2018 Report* and *2019 Report* did not include data from the U.S. Territories in the overall deployment figures for the United States, data from the U.S. Territories was reported separately. See *2019 Report*, 34 FCC Rcd at 3878, para. 39, Fig. 5; *2018 Report*, 33 FCC Rcd at 1688-89, para. 59, Tbl. 6.

⁹⁶ Ookla data is unavailable for the U.S. Territories, and thus figures and appendices presenting 10/3 Mbps mobile figures based on Ookla data will not include the U.S. Territories, even for 2018.

⁹⁷ We also include data for Puerto Rico in our presentation of demographic data. See Figs. 5, 6, 7, 8. Further, Appendices 1-6 include data for the U.S. Territories.

29. *Fixed Terrestrial Services.* We find that our Form 477 deployment data for fixed terrestrial services remain the most reliable and comprehensive data to assess the availability of fixed terrestrial services to American consumers. We evaluate the deployment of fixed terrestrial services with minimum advertised speeds of 10/1 Mbps, 25/3 Mbps, 50/5 Mbps, 100/10 Mbps, and 250/25 Mbps. We use Form 477 subscribership data to calculate adoption rates for fixed terrestrial services.

30. *Satellite Services.* We find that Form 477 deployment data for satellite broadband service may overstate the extent to which satellite broadband is available. The Form 477 deployment data for satellite broadband indicate that satellite service offering 25/3 Mbps speeds is available to nearly all of the population.⁹⁸ However, other Form 477 data indicate that satellite services have a relatively low subscription rate despite their apparent widespread availability.⁹⁹ In Appendix 8, we provide deployment estimates for all fixed services, including satellite, from 2014 to 2018.¹⁰⁰ Unless stated otherwise, our analysis is based on all fixed terrestrial services, which do not include satellite.

31. *Fixed Wireless Services.* We note that the Form 477 data for fixed wireless services appear to show that these services are widely available. However, these services have a sufficiently low subscription rate¹⁰¹ to potentially support a conclusion that the Form 477 deployment data may overstate the extent to which fixed wireless services are available. In Appendix 9, we provide deployment estimates for fixed wired services, that is, fixed services excluding fixed wireless and satellite services, for 2014 to 2018.¹⁰²

32. *Mobile Services.* We continue to conclude that the best way to evaluate mobile broadband deployment and availability is to rely on available coverage data supplemented with Ookla's speed test data. These data sets serve as a proxy for the likely consumer experience in a given area while providing objective data to assess deployment progress. While acknowledging certain limitations of the Form 477 data, we nonetheless elect to employ the Form 477 LTE technology coverage data in this Report because they are the most comprehensive data that we currently have on a nationwide basis over time to assess the availability of mobile LTE to American consumers.¹⁰³ We use the Form 477 LTE deployment shapefiles with a minimum advertised speed of 5/1 Mbps.¹⁰⁴ As the Commission has done in

⁹⁸ More specifically, the data indicate that satellite service offering 25/3 Mbps speeds is available to 326.979 million of the 327.167 million Americans, or approximately 100% of the U.S. population. FCC Form 477 Data as of December 31, 2018.

⁹⁹ Form 477 data shows that 1.7 million households currently subscribe to satellite services of at least 10/1 Mbps. FCC Form 477 Data as of December 31, 2018. While satellite signal coverage may enable operators to offer services to wide swaths of the country, overall satellite capacity may limit the number of consumers that can actually subscribe to satellite service at any one time. *Notice*, 34 FCC Rcd at 10099, para. 19; *2019 Report*, 34 FCC Rcd at 3870, para. 28 n.98; *2018 Report*, 33 FCC Rcd at 1681, para. 51 n.148. For this reason, we will continue to report satellite broadband deployment data separately.

¹⁰⁰ See *infra* Appx. 8 (Deployment (Millions) of Fixed Services (Including Satellite) at Different Speed Tiers).

¹⁰¹ For example, as of December 31, 2018, the adoption rate for fixed wireless services of at least 10/1 Mbps is 1%. FCC Form 477 Data as of December 31, 2018. This contrasts with the 57% adoption rate for cable and the 30% adoption rate for fiber-based services at the same speeds where these services are available in the United States. *Id.*

¹⁰² See *infra* Appx. 9 (Deployment (Millions) of Fixed Wired Services at Different Speed Tiers).

¹⁰³ We continue to explore ways of improving data on mobile coverage. *Digital Opportunity Data Collection Order*, 34 FCC Rcd at 7549-59, paras. 112-34 (seeking comment about how to obtain and verify more accurate mobile coverage data).

¹⁰⁴ For fixed services, the Commission has been able to rely upon Form 477 reported maximum advertised speeds to track actual speeds. However, we note that the relationship between actual speeds and the advertised speed reported in the Form 477 for mobile services is more complex, because minimum advertised speed is reported by the mobile providers, and different mobile providers estimate their minimum advertised speed based on various points of their

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previous *Reports*, we employ the centroid methodology in evaluating the Form 477 deployment data for LTE.¹⁰⁵ We apply the same methodology as we use for fixed services, and consider a census block to be covered by LTE services if there is at least one service provider serving that census block that reports 5/1 Mbps as the minimum advertised speed, based on their Form 477 submission.¹⁰⁶

33. We recognize, however, that actual speeds tend to be much faster than the minimum advertised speed. Therefore, we also present estimates based on Ookla speed test data to evaluate the availability of LTE with a median actual speed of 10/3 Mbps or higher.¹⁰⁷ We rely on the Ookla data¹⁰⁸ to supplement our Form 477 analysis primarily because they allow us to evaluate the extent to which the typical consumer receives speeds of 10/3 Mbps or higher, and they provide us with the greatest number of observations of actual speeds that customers receive.¹⁰⁹ As the Commission has done previously, our analysis of the availability of mobile LTE services with a median speed of 10/3 Mbps includes actual speed test data in counties¹¹⁰ with at least 300 test observations in each time frame.¹¹¹ The more densely

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actual speed distribution. *2019 Report*, 34 FCC Rcd at 3870, para. 29 & n.100. By contrast, the Ookla data provide us with the actual speeds that consumers experience.

¹⁰⁵ See, e.g., *2019 Report*, 34 FCC Rcd at 3870, para. 29.

¹⁰⁶ We note that questions have arisen in various contexts regarding the bases for certain filings. For example, in the context of the Mobility Fund Phase II (MF-II) proceeding, the Commission determined that a separate, one-time data collection was necessary to ensure that all mobile LTE providers were using the same standard when generating coverage maps of their 5 Mbps downstream 4G LTE deployment. *Connect America Fund, Universal Service Reform—Mobility Fund*, Order on Reconsideration and Second Report and Order, 32 FCC Rcd 6282, 6286, para. 7, 6287, para. 10, 6298, para. 34 (2017) (*Mobility Fund Phase II Challenge Process Order*). However, a 2019 staff report investigating potential violations of the MF-II mapping rules concluded, among other things, that the MF-II coverage maps submitted by several providers are not a sufficiently reliable or accurate basis upon which to complete the MF-II challenge process (used to determine areas eligible for funding) as it was designed. FCC, *Mobility Fund Phase II Coverage Maps Investigation*, GN Docket No. 19-367, Staff Report (Dec. 4, 2019), <https://docs.fcc.gov/public/attachments/DOC-361165A1.pdf>. We note the Commission has begun to implement improvements in our data collection process and has sought comment on other steps to obtain more accurate and reliable mobile deployment data. *Digital Opportunity Data Collection Order*, 34 FCC Rcd at 7549-7559, paras. 112-34; FCC, *Changes to Form 477 in 2019 and 2020* at 2 (Jan. 8, 2020), <https://us-fcc.app.box.com/v/ChangesFor2019and2020>.

¹⁰⁷ The data collected by the Ookla Speedtest mobile app include test results for download speed, upload speed, and latency, as well as other information, such as the location of the test and operating system of the handset. See *2019 Report*, 34 FCC Rcd at 3871, para. 20 n.105; see also <https://www.speedtest.net/about>.

¹⁰⁸ The Ookla results presented in this Report are based on tests that were executed in the second half of the year for 2014, 2015, 2016, 2017, and 2018 on the smartphone's cellular connection, and using LTE technology. Test data were excluded if they had missing GPS location data or if the reported download or upload speed was less than zero or greater than 100 Mbps. Multiple tests by a single phone in the same locality and in the same day were averaged (using the median). All Ookla speed tests are user-initiated.

¹⁰⁹ We note that, in general, crowd-sourced data can offer the advantage of generating a large volume of data at a very low cost and of measuring actual consumer experience on a network in a wide variety of locations, indoor and outdoor. Crowd-sourced data, however, often are not collected pursuant to statistical sampling techniques, and may require adjustments to construct a representative sample from the raw data. For instance, crowd-sourced mobile data come from a self-selected group of users, and there often is little control for most tests regarding such parameters as when people implement the test, whether the test is performed indoors or outdoors, the geographic location of the tester, and the vintage of the consumer's device. *2019 Report*, 34 FCC Rcd at 3871, para. 30 n.104.

¹¹⁰ Wireless mobile speeds vary over even small local areas. Therefore, ascribing the median county Ookla speed to an entire county will sometimes overestimate or underestimate realized local speeds. See Colville Confederated Tribes Comments at 4. Use of Ookla data alone would overestimate coverage as counties with only partial coverage would be represented as having 100% coverage. Use of Form 477 data alone would necessitate reliance on the 5/1 Mbps reporting standard.

populated counties have a higher likelihood of being included in this analysis because there generally are more observations in those geographical areas with a higher population density. Although we do not have reliable on-the-ground speed data for every county in the United States, the Ookla data cover approximately 93% of the population of the United States, excluding the U.S. Territories, for which we do not have data.¹¹² Using the existing Form 477 data combined with on-the-ground speed testing data provides the most reliable and comprehensive available data that is currently available on the extent of mobile coverage,¹¹³ and its continued use allows for a consistent measure of progress over time.

34. *Schools.* For purposes of this Report, we assess deployment in elementary and secondary schools based upon the best publicly available data, specifically that analyzed in EducationSuperHighway's *2019 State of the States Report*.¹¹⁴ The *2019 State of the States Report* tracks public schools' progress toward the Commission's goals for K-12 connectivity using the Commission's Form 471 data and additional outreach efforts to E-Rate applicants for clarifications on their broadband purchases.¹¹⁵ The *2019 State of the States Report* provides an analysis of schools meeting the connectivity goals using fiber and other scalable broadband connections, using a sample of public school districts in each state.

(Continued from previous page)

¹¹¹ *2019 Report*, 34 FCC Rcd at 3871, para. 30. This sample size threshold applies to each county for each time frame (2H2014, 2H2015, 2H2016, 2H2017, and 2H2018). If a county does not have at least 300 observations during any of these time frames, it is not included in the actual speed analysis. The 300 observations threshold is a conservative threshold and is based on a general mean and median sample size analysis. We consider a county to have a sufficient sample size if there are at least 300 total observations in each of the five years after the cleaning and trimming rules have been applied. County geography is assigned using the latitude and longitude coordinates that are collected during each Ookla speed test, via the device's GPS. This allows us to evaluate actual median upload and download speeds at the county level, in each year of the five-year time period, for counties in which approximately 93% of the U.S. population live (not including the U.S. Territories). If a census block has LTE coverage of at least 5/1 Mbps based on the Form 477 minimum advertised speeds, it is assigned the median upload and download speeds that are calculated for the county in which it is located, which allows us to evaluate the mobile broadband speeds for each census block within the United States.

¹¹² The percentage of the population in our analysis is based on the total U.S. population, not including the U.S. Territories, for which we separately report our results. The Ookla speed data population in Figure 2b is a subset of the total U.S. population evaluated in Figure 2a and refers to the population in the counties for which we believe there are a statistically significant number of on-the-ground speed test observations. We do not have Ookla speed data for the U.S. Territories. In 2018, for example, the U.S. population, not including the U.S. Territories, was 325.167 million, whereas in Figure 2b, we use 304.288 million as the basis for our 2018 calculations. The population evaluated figure, 304.288 million, is the population for the U.S., excluding the U.S. Territories and the population in the counties without a sufficient number of reliable on-the-ground speed test data observations.

¹¹³ *2018 Report*, 33 FCC Rcd at 1672-74, paras. 31-34 (discussing use of Form 477 combined with Ookla data to account for limitations in both data sets). We note that no commenter has proposed alternative data sets for the specific analysis in this report.

¹¹⁴ See EducationSuperHighway, *2019 State of the States Report* (Oct. 2019) (*2019 State of the States Report*), <https://s3-us-west-1.amazonaws.com/esh-sots-pdfs/2019%20State%20of%20the%20States.pdf>. In the *2019 Report*, we also evaluated information provided by the Consortium for School Networking (CoSN), specifically the *CoSN's 2018-2019 Annual Infrastructure Report*, a report published in January 2019. See *2019 Report*, 34 FCC Rcd at 3887-88, para. 51. Because the *CoSN's 2018-2019 Annual Infrastructure Report* does not provide data for 2019 and no subsequent report has been issued, we do not rely on any CoSN Annual Infrastructure Report in this Report.

¹¹⁵ See EducationSuperHighway, *2019 State of the States Report* at 21-22; see also EducationSuperHighway: *2019 State of the States FAQ* (Oct. 2019), <https://stateofthestates.educationsuperhighway.org/faq.html> (*2019 State of the States Report FAQ*). EducationSuperHighway uses a sample of public school districts receiving broadband services—including, but not limited to, fiber services—in funding year 2019 in its dataset. See *id.*

B. Broadband Deployment Estimates

35. In Figures 1 through 3 below, we present our measurement of deployment, evaluating progress by comparing deployment in the present year to deployment in the previous four years.¹¹⁶ Our released deployment data are periodically updated as filers revise their data. For purposes of this Report, we also report results for federally-recognized Tribal lands. We aggregate federally-recognized Tribal lands into four Tribal lands categories (the Lower 48 States,¹¹⁷ Tribal Statistical Areas,¹¹⁸ Alaskan Villages,¹¹⁹ and Hawaiian Homelands)¹²⁰ and report deployment for each of these four geographic categories separately, as well as together.¹²¹

1. Deployment of Fixed Advanced Telecommunications Capability

36. Figure 1 shows the deployment of fixed terrestrial broadband at speeds of 25/3 Mbps, the Commission's current benchmark for fixed advanced telecommunications capability.¹²² As of year-end 2018, 94.4% of the overall population had coverage of such services, up from 93.5% in 2017. Nonetheless, the gap in rural and Tribal America remains notable: 22.3% of Americans in rural areas and 27.7% of Americans in Tribal lands lack coverage from fixed terrestrial 25/3 Mbps broadband, as compared to only 1.5% of Americans in urban areas.¹²³ The data demonstrate, however, that the gap between urban and rural or Tribal areas has narrowed each year over the last five years. Indeed, while the gap between urban and rural areas was 30 percentage points as of year-end 2016, it was only 20.8 percentage points as of year-end 2018. In 2016, 25/3 Mbps satellite service was reported for the first time in the Form 477 data collection.¹²⁴ If we include satellite service in our estimate, the December 2018 data shows that fixed 25/3 Mbps service is deployed to nearly every American.¹²⁵

¹¹⁶ Unless otherwise noted, the deployment percentage estimate for fixed terrestrial services and/or mobile services is the population in the census blocks with coverage for the service divided by the total population in the area being considered (e.g., United States, all rural areas, all urban areas).

¹¹⁷ These areas include: (1) Joint Use Areas; (2) legal, federally-recognized American Indian area consisting of reservation and associated off-reservation trust land; (3) legal, federally-recognized American Indian area consisting of reservation only; and (4) legal, federally-recognized American Indian area consisting of off-reservation trust land only.

¹¹⁸ Tribal statistical areas are statistical American Indian areas. These are defined for a federally-recognized Tribe that does not have reservation or off-reservation trust land, specifically a Tribal designated statistical area (TDSA) or Oklahoma Tribal statistical area (OTSA).

¹¹⁹ Alaskan Native village statistical area.

¹²⁰ Hawaiian Home Lands established by the Hawaiian Homes Commission Act of 1921.

¹²¹ See *infra* Fig. 10.

¹²² In all instances in which we refer in this Report to data for the United States, unless stated otherwise, we refer to the fifty States and the District of Columbia, but not the U.S. Territories.

¹²³ For purposes of presenting estimates for rural and urban areas, we aggregate all similarly categorized areas. The designation of a census block as urban is based upon the 2010 Census. An urban census block encompasses all population, housing, and territory included within a census block categorized as in an urban area or urban cluster. A rural census block encompasses all population, housing, and territory not included within an urban census blocks.

¹²⁴ 2018 Report, 32 FCC Rcd at 1681, para. 51.

¹²⁵ See also *infra* Appx. 8 (Deployment (Millions) of Fixed Services (Including Satellite) at Different Speed Tiers in the United States). We also present estimates for fixed wired services, excluding satellite and fixed wireless services. See *infra* Appx. 9 (Deployment (Millions) of Fixed Wired Services (Including Satellite) at Different Speed Tiers in the United States).

Fig. 1
Deployment (Millions) of Fixed Terrestrial 25/3 Mbps Services

	2014		2015		2016		2017		2018	
	Pop.	%	Pop.	%	Pop.	%	Pop.	%	Pop.	%
United States	284.246	89.4%	287.853	89.9%	296.320	91.9%	304.473	93.5%	308.913	94.4%
Rural Areas	37.174	60.3%	38.271	61.5%	42.628	67.7%	46.982	73.7%	50.099	77.7%
Urban Areas	247.072	96.4%	249.582	96.7%	253.692	97.7%	257.491	98.3%	258.814	98.5%
Tribal Lands	2.245	57.1%	2.290	57.8%	2.520	63.1%	2.734	68.1%	2.921	72.3%
Pop. Evaluated	317.954	100.0%	320.289	100.0%	322.518	100.0%	325.716	100.0%	327.167	100.0%

2. Deployment of Mobile LTE

37. Figure 2a shows that approximately all of the American population lives in geographical areas covered by mobile LTE with a minimum advertised speed of at least 5/1 Mbps.¹²⁶ Further, from 2014 to 2018, the percentage of Americans living in rural areas with coverage of LTE at 5/1 Mbps increased from 96.5% to 99.4%. Figure 2b also shows significant improvement since 2017 in the deployment of mobile LTE services at median speeds of at least 10/3 Mbps for the United States, urban areas, and rural areas. Figure 2b shows that between 2017 and 2018, the percentage of Americans living in the United States with mobile LTE services coverage at median speeds of 10/3 Mbps increased from 89.0% to 94.9%. In addition, gains have been made in rural areas, where coverage increased from 69.3% to 83.3% between 2017 and 2018, after being relatively stagnant between 2014 and 2017.¹²⁷

¹²⁶ Questions have arisen in various contexts regarding the reliability of mobile coverage data. *See, e.g., Mobility Fund Phase II Challenge Process Order*, 32 FCC Rcd at 6286, para. 7, 6287, para. 10, 6298, para. 34. The Commission has begun to implement improvements in our data collection process and has sought comment on other steps to obtain more accurate and reliable mobile deployment data. *Digital Opportunity Data Collection Order*, 34 FCC Rcd at 7549-59, paras. 112-34. *See supra* n.106.

¹²⁷ We present additional deployment data for mobile LTE services for each state, the District of Columbia, U.S. Territory, and each category of Tribal land in the appendices. *See infra* Appxs. 1, 2, and 3 (reporting figures by state, the District of Columbia, and U.S. Territory), Appx. 4 (reporting figures by county and county equivalent), and Appx. 6 (reporting figures for Tribal lands and states).

Fig. 2a
Deployment (Millions) of Mobile LTE with a Minimum Advertised Speed of 5/1 Mbps

Area	2014		2015		2016		2017		2018	
	Pop.	%	Pop.	%	Pop.	%	Pop.	%	Pop.	%
United States	315.506	99.2%	318.923	99.6%	321.347	99.6%	325.117	99.8%	326.727	99.9%
Rural Areas	59.463	96.5%	60.969	97.9%	61.802	98.2%	63.204	99.1%	64.097	99.4%
Urban Areas	256.043	99.9%	257.954	100.0%	259.545	100.0%	261.912	100.0%	262.630	100.0%
Tribal Lands	3.626	92.2%	3.722	93.9%	3.788	94.9%	3.896	97.0%	3.937	97.5%
Pop. Evaluated	317.954	100.0%	320.289	100.0%	322.518	100.0%	325.716	100.0%	327.167	100.0%

Fig. 2b
Deployment (Millions) of Mobile LTE with a Median Speed of 10/3 Mbps¹²⁸

Area	2014		2015		2016		2017		2018	
	Pop.	%	Pop.	%	Pop.	%	Pop.	%	Pop.	%
United States	237.210	80.1%	245.843	82.5%	261.898	87.3%	269.494	89.0%	288.809	94.9%
Rural Areas	32.638	70.3%	32.193	69.3%	32.962	70.1%	32.966	69.3%	40.103	83.3%
Urban Areas	204.573	81.9%	213.650	85.0%	228.936	90.5%	236.528	92.6%	248.706	97.1%
Pop. Evaluated	296.204	93.2%	297.899	93.0%	300.036	93.0%	302.940	93.0%	304.288	93.0%

3. Deployment of Fixed Services and Mobile LTE

38. Figure 3a shows deployment across all geographic areas for both fixed terrestrial 25/3 Mbps services and 5/1 Mbps mobile LTE.¹²⁹ Overall, as of year-end 2018, approximately 309 million Americans, or 94.4% of the population, are covered by both 25/3 Mbps fixed terrestrial service and mobile LTE with a minimum advertised speed of 5/1 Mbps. In rural areas, 77.4% of Americans are covered by both services, as opposed to 98.5% of Americans in urban areas, up from 73.3% and 98.3%, respectively, in 2017. On Tribal lands, 72.1% of Americans have coverage from both services, up from 67.8% in 2017. Figure 3b shows deployment of fixed terrestrial speeds of 25/3 Mbps and mobile LTE with median speed of 10/3 Mbps. As of December 31, 2018, 91.7% of Americans live in geographic areas covered by both services, an increase of 5.9 percentage points since 2017. Further, these data

¹²⁸ The analyses in Figures 2a, 3a, and 3c include all areas of the United States (besides the U.S. Territories) and are based on Form 477 data. In contrast, the analyses in Figures 2b, 3b, and 3d are based on Ookla data, and exclude any county (and its associated census blocks) for which there is insufficient Ookla data. In addition, we do not report results for Tribal lands in Figures 2b, 3b, and 3d because we have concerns with the reliability of the Ookla data for these areas. Tribal areas not only typically have fewer speed tests, but there are also fewer of these areas relative to urban and rural areas. Thus, deployment estimates for tribal areas are more sensitive to sample variance. The population figure reported in the bottom row of these figures is the population evaluated for the reported time period and the percentage is the percentage of the U.S. population evaluated. Accordingly, the 304.288 million population evaluated figure for 2018 in Figure 2b represents 93% of the overall population in the 50 U.S. states plus the District of Columbia ($304.288/327.167 = 0.93$). Regardless of our deployment estimates for mobile LTE with a median speed of 10/3 Mbps, Americans residing in the counties without sufficient Ookla data to create a statistically significant county sample to be included in Figures 2b, 3b, and 3d, receive minimum advertised speeds of 5/1 Mbps, and likely receive mobile services with speeds higher than 5/1 Mbps.

¹²⁹ We present additional deployment data for fixed terrestrial 25/3 Mbps and/or mobile LTE services in the appendices. See *infra* Appxs. 1, 2 and 3 (reporting figures by state, District of Columbia, and U.S. Territory), Appx. 4 (reporting figures by county and county equivalent), Appx. 5 (reporting figures by urban and rural areas within each county or county equivalent), and Appx. 6 (reporting figures for Tribal lands).

indicate that, between 2017 and 2018, deployment increased from 56.3% to 69.8% for Americans living in rural areas, a larger increase that occurred between 2014 and 2017.

Fig. 3a
Deployment (Millions) of Fixed Terrestrial 25/3 Mbps and Mobile LTE
with a Minimum Advertised Speed of 5/1 Mbps

Area	2014		2015		2016		2017		2018	
	Pop.	%	Pop.	%	Pop.	%	Pop.	%	Pop.	%
United States	283.386	89.1%	287.387	89.7%	295.853	91.7%	304.216	93.4%	308.722	94.4%
Rural Areas	36.489	59.2%	37.840	60.8%	42.182	67.0%	46.731	73.3%	49.932	77.4%
Urban Areas	246.897	96.3%	249.547	96.7%	253.671	97.7%	257.485	98.3%	258.790	98.5%
Tribal Lands	2.206	56.1%	2.258	57.0%	2.491	62.4%	2.722	67.8%	2.914	72.1%
Pop. Evaluated	317.954	100.0%	320.289	100.0%	322.518	100.0%	325.716	100.0%	327.167	100.0%

Fig. 3b
Deployment (Millions) of Fixed Terrestrial 25/3 Mbps and Mobile LTE
with a Median Speed of 10/3 Mbps

Area	2014		2015		2016		2017		2018	
	Pop.	%	Pop.	%	Pop.	%	Pop.	%	Pop.	%
United States	221.249	74.7%	230.561	77.4%	249.802	83.3%	259.998	85.8%	279.162	91.7%
Rural Areas	22.634	48.8%	22.554	48.5%	24.947	53.1%	26.754	56.3%	33.595	69.8%
Urban Areas	198.615	79.5%	208.007	82.7%	224.855	88.9%	233.244	91.3%	245.568	95.9%
Pop. Evaluated	296.204	93.2%	297.899	93.0%	300.036	93.0%	302.940	93.0%	304.288	93.0%

39. Figure 3c reports deployment of fixed terrestrial 25/3 Mbps service *or* mobile LTE with a minimum advertised speed of 5/1 Mbps, and shows that services have been deployed to over 99.5% of the American population since 2014. Figure 3d shows that approximately 99.1% of the population in the evaluated areas are covered by either 25/3 Mbps fixed terrestrial service or mobile LTE with a median speed of at least 10/3 Mbps.

Fig. 3c
Deployment (Millions) of Fixed Terrestrial 25/3 Mbps or Mobile LTE
with a Minimum Advertised Speed of 5/1 Mbps

Area	2014		2015		2016		2017		2018	
	Pop.	%	Pop.	%	Pop.	%	Pop.	%	Pop.	%
United States	316.366	99.5%	319.389	99.7%	321.814	99.8%	325.373	99.9%	326.918	99.9%
Rural Areas	60.148	97.6%	61.400	98.6%	62.248	98.9%	63.455	99.5%	64.264	99.6%
Urban Areas	256.218	100.0%	257.989	100.0%	259.567	100.0%	261.919	100.0%	262.653	100.0%
Tribal Lands	3.664	93.2%	3.753	94.7%	3.817	95.6%	3.907	97.3%	3.944	97.7%
Pop. Evaluated	317.954	100.0%	320.289	100.0%	322.518	100.0%	325.716	100.0%	327.167	100.0%

Fig. 3d
Deployment (Millions) of Fixed Terrestrial 25/3 Mbps or Mobile LTE
with a Median Speed of 10/3 Mbps

Area	2014		2015		2016		2017		2018	
	Pop.	%	Pop.	%	Pop.	%	Pop.	%	Pop.	%
United States	288.119	97.3%	290.355	97.5%	293.855	97.9%	297.944	98.4%	301.608	99.1%
Rural Areas	40.331	86.9%	40.660	87.5%	41.888	89.1%	43.181	90.8%	45.710	94.9%
Urban Areas	247.787	99.2%	249.695	99.3%	251.967	99.6%	254.763	99.8%	255.897	99.9%
Pop. Evaluated	296.204	93.2%	297.899	93.0%	300.036	93.0%	302.940	93.0%	304.288	93.0%

40. Figure 3e reports deployment over the entire United States, including all U.S. Territories, for both fixed terrestrial 25/3 Mbps services and 5/1 Mbps mobile LTE as of December 31, 2018.¹³⁰ This data shows year end 2018 deployment rates comparable to those presented in Figure 1, in which the U.S. Territories are excluded.¹³¹

Fig. 3e
Deployment (Millions) of Fixed Terrestrial 25/3 Mbps and Mobile LTE with a Minimum
Advertised Speed of 5/1 Mbps for the United States, Including U.S. Territories
(As of December 31, 2018)

	Fixed Terrestrial 25/3 Mbps		Mobile LTE 5/1 Mbps		Fixed Terrestrial 25/3 Mbps and Mobile LTE 5/1 Mbps		Fixed Terrestrial 25/3 Mbps or Mobile LTE 5/1 Mbps	
	Pop.	%	Pop.	%	Pop.	%	Pop.	%
United States	312.079	94.4%	330.245	99.9%	311.834	94.3%	330.489	99.9%
Rural Areas	50.254	77.6%	64.326	99.4%	50.079	77.4%	64.502	99.6%
Urban Areas	261.825	98.4%	265.918	100.0%	261.755	98.4%	265.988	100.0%
Pop. Evaluated	330.740	100.0%	330.740	100.0%	330.740	100.0%	330.740	100.0%

4. Additional Deployment Estimates

41. Figure 4 shows deployment of fixed terrestrial services at various speed tiers from year-end 2014 through 2018.¹³² As of December 2018, fixed terrestrial service of 50/5 Mbps service is deployed to 92.7% of the population, up from 91.6% in 2017. Between 2017 and 2018, the deployment of 100/10 Mbps increased from 88.6% to 90.5% of the population, and the deployment of 250/25 Mbps dramatically increased from 58.3% to 85.6% of the population. While deployment in rural areas and on Tribal lands lags behind deployment in urban areas at all five speed tiers, but the data show year-over-year improvements for all speeds in these areas. For example, the deployment of 250/25 Mbps increased from 28.2% to 51.6% of the rural population.

¹³⁰ Data presented in 3e includes Tribal Lands.

¹³¹ Appendices 1-5 include data for the U.S. Territories.

¹³² We present deployment estimates for all fixed services, including satellite broadband, in Appendix 8, and deployment estimates for all fixed wired services, excluding satellite and fixed wireless services, in Appendix 9. See *infra* Appx. 8 (Deployment (Millions) of Fixed Services (Including Satellite) at Different Speed Tiers), Appx. 9 (Deployment (Millions) of Fixed Wired Services at Different Speed Tiers). The data in Figure 4 and Appendices 8 and 9 exclude the U.S. Territories.

Fig. 4
Deployment (Millions) of Fixed Terrestrial Services at Different Speed Tiers

Area	2014		2015		2016		2017		2018	
	Pop.	%	Pop.	%	Pop.	%	Pop.	%	Pop.	%
10/1 Mbps										
United States	297.873	93.7%	302.138	94.3%	309.095	95.8%	315.656	96.9%	318.795	97.4%
Rural Areas	46.263	75.1%	48.361	77.7%	52.424	83.3%	56.169	88.1%	58.450	90.6%
Urban Areas	251.609	98.2%	253.777	98.4%	256.671	98.9%	259.487	99.1%	260.345	99.1%
Tribal Lands	2.701	68.7%	2.886	72.8%	3.201	80.2%	3.348	83.3%	3.510	86.9%
25/3 Mbps										
United States	284.246	89.4%	287.853	89.9%	296.320	91.9%	304.473	93.5%	308.913	94.4%
Rural Areas	37.174	60.3%	38.271	61.5%	42.628	67.7%	46.982	73.7%	50.099	77.7%
Urban Areas	247.072	96.4%	249.582	96.7%	253.692	97.7%	257.491	98.3%	258.814	98.5%
Tribal Lands	2.245	57.1%	2.290	57.8%	2.520	63.1%	2.734	68.1%	2.921	72.3%
50/5 Mbps										
United States	270.740	85.2%	283.329	88.5%	291.260	90.3%	298.242	91.6%	303.182	92.7%
Rural Areas	32.100	52.1%	35.316	56.7%	39.147	62.2%	42.312	66.3%	45.530	70.6%
Urban Areas	238.640	93.1%	248.013	96.1%	252.114	97.1%	255.930	97.7%	257.652	98.1%
Tribal Lands	1.913	48.6%	2.116	53.4%	2.269	56.9%	2.462	61.3%	2.639	65.3%
100/10 Mbps										
United States	201.894	63.5%	215.582	67.3%	244.110	75.7%	288.497	88.6%	296.243	90.5%
Rural Areas	16.472	26.7%	20.481	32.9%	25.781	41.0%	37.223	58.4%	40.388	62.6%
Urban Areas	185.423	72.3%	195.101	75.6%	218.329	84.1%	251.275	95.9%	255.855	97.4%
Tribal Lands	1.315	33.4%	1.669	42.1%	1.875	47.0%	2.198	54.7%	2.420	59.9%
250/25 Mbps										
United States	15.692	4.9%	67.912	21.2%	140.577	43.6%	190.041	58.3%	280.143	85.6%
Rural Areas	2.031	3.3%	5.460	8.8%	9.871	15.7%	17.991	28.2%	33.274	51.6%
Urban Areas	13.662	5.3%	62.452	24.2%	130.707	50.4%	172.050	65.7%	246.869	94.0%
Tribal Lands	0.048	1.2%	0.276	7.0%	1.330	33.3%	1.604	39.9%	1.837	45.5%
Pop. Evaluated	317.954	100.0%	320.289	100.0%	322.518	100.0%	325.716	100.0%	327.167	100.0%

C. Demographic Data

42. In Figures 5, 6, 7, and 8, we present demographic data with our deployment analysis.¹³³ Figures 5 and 6 compare the available demographic data for Americans with and without coverage by

¹³³ To present demographic data and compare the demographic data between areas where services are and are not deployed, we aggregate the census block data up to the census block group level, the lowest aggregation level for which demographic information is available. This unavoidable aggregation leads to census blocks with differing characteristics being grouped together. In the case of differing levels of deployment, we designate a census block group as without deployment if more than 5% of the population in the census block group is without services, regardless of the level of deployment in any particular census block in the group. Further, some census block groups are a mix of census blocks that are designated as rural and urban. In such instances, we designate a census block group as rural if more than 50% of the population in the census block group resides in census blocks designated as rural. Finally, we designate a census block group as Tribal lands if more than 50% of the land area in the census block group is designated as Tribal lands. We use the Census Bureau's American Community Survey (ACS) Five-Year Estimates 2014-2018 for income and poverty measures for the states, District of Columbia and Puerto Rico;

(continued....)

fixed terrestrial 25/3 Mbps service and mobile LTE. Figure 5 presents this analysis for the United States (excluding U.S. Territories other than Puerto Rico) as a whole, urban and non-urban core areas, and Tribal lands for fixed terrestrial 25/3 Mbps service and mobile LTE with a minimum advertised speed of 5/1 Mbps in 2018.¹³⁴ The data show that, generally, Americans living in areas where these services are deployed typically live in census block groups with a lower percentage of households living in poverty, and with higher average populations, population densities, per capita incomes, and median household incomes than Americans living in areas without coverage by these services.

(Continued from previous page)

income measures are not available for the other U.S. Territories. Per capita income and median household income in the past twelve months are measured in 2018 Inflation-Adjusted Dollars. The household poverty rate is the proportion of households living below the poverty level. Population Density is the total population residing in the census block group as of 2018 divided by the square miles of land in the census block group, with the estimate of land area is based upon the 2010 Census.

¹³⁴ Demographic data is not available for U.S. Territories other than Puerto Rico. We provide state-by-state and county-by-county demographic deployment information (including for Puerto Rico) in Appendices 4 and 5, *infra*.

Fig. 5
Comparison of Demographic Data Between Areas Where Fixed Terrestrial 25/3 Mbps and Mobile LTE with a Minimum Advertised Speed of 5/1 Mbps Have Been Deployed and Where These Services Have Not Been Deployed (As of December 31, 2018)

	Average Population	Average Population Density	Average Per Capita Income (\$2018)	Average Median Household Income (\$2018)	Average Household Poverty Rate
United States¹³⁵					
With Deployment	1,513.0***	7,387.3***	\$33,234.04***	\$67,773.48***	14.6%***
Without Deployment	1,421.7	1,075.2	\$27,355.32	\$54,201.49	15.6%
Rural Areas					
With Deployment	1,444.3***	198.2***	\$32,005.61***	\$64,942.67***	11.2%***
Without Deployment	1,339.2	75.1	\$27,289.10	\$54,209.97	14.1%
Urban Areas					
With Deployment	1,521.0***	8,232.7***	\$33,378.27***	\$68,110.57***	15.1%***
Without Deployment	1,612.2	3,383.3	\$27,509.74	\$54,181.11	19.2%
Tribal Lands (Rural and Urban Areas)					
With Deployment	1,384.1	2,088.4***	\$27,103.51***	\$52,981.74***	16.5%***
Without Deployment	1,344.4	219.0	\$22,483.97	\$46,094.31	21.1%
Tribal Rural Areas					
With Deployment	1,409.4*	179.4***	\$25,866.22***	\$53,302.74***	16.0%***
Without Deployment	1,337.9	72.3	\$22,849.44	\$46,721.15	20.5%
Tribal Urban Areas					
With Deployment	1,377.2	2,605.3***	\$27,437.28***	\$52,894.91***	16.7%***
Without Deployment	1,372.5	849.1	\$20,925.28	\$43,389.77	23.3%
We test for a statistical difference in the reported means between areas with and without deployment of these services. The level of statistical significance is indicated by the number of stars. The absence of a star indicates no statistical difference between the reported figures. * signifies statistical significance at a 90% level of confidence, ** signifies statistical significance at a 95% level of confidence, and *** signifies statistical significance at a 99% level of confidence.					

43. Figure 6 compares the available demographic data across urban and rural areas for Americans in the 50 states and District of Columbia with and without coverage by both fixed terrestrial 25/3 Mbps service and mobile LTE service with a median speed of 10/3 Mbps in 2018.¹³⁶ Like Figure 5, Figure 6 shows that Americans living in areas where these services are deployed typically live in census block groups where there is a lower percentage of households living in poverty, and where there are higher average populations, population densities, per capita incomes, and median household incomes.

¹³⁵ Data excludes U.S. Territories other than Puerto Rico.

¹³⁶ As is the case with the presentation of results based upon 10/3 Mbps Ookla data, we exclude the U.S. Territories from this analysis due to a lack of Ookla data for these areas, and we do not report separately for Tribal lands because of concerns with the representativeness of the Ookla data for these areas. *See supra* Sections IV.B.2 and IV.B.3.

Fig. 6
Comparison of Demographic Data Between Areas Where Fixed Terrestrial 25/3 Mbps and Mobile LTE with a Median Speed of 10/3 Mbps Have Been Deployed and Where These Services Have Not Been Deployed (As of December 31, 2018)

	Average Population	Average Population Density	Average Per Capita Income (\$2018)	Average Median Household Income (\$2018)	Average Household Poverty Rate
United States¹³⁷					
With Deployment	1,544.5***	7,940.4***	\$34,174.45***	\$69,911.65***	14.0%***
Without	1,502.4	1,497.4	\$28,194.59	\$56,344.62	15.0%
Rural Areas					
With Deployment	1,533.0***	196.4***	\$33,855.27***	\$69,510.34***	10.0%***
Without	1,446.0	90.1	\$28,489.00	\$57,330.60	13.0%
Urban Areas					
With Deployment	1,545.6***	8,643.9***	\$34,203.40***	\$69,948.42***	14.4%***
Without	1,577.0	3,357.1	\$27,802.86	\$54,998.17	17.6%
We test for a statistical difference in the reported means between areas with and without deployment of these services. The level of statistical significance is indicated by the number of stars. The absence of a star indicates no statistical difference between the reported figures. * signifies statistical significance at a 90% level of confidence, ** signifies statistical significance at a 95% level of confidence, and *** signifies statistical significance at a 99% level of confidence.					

44. Figure 7 shows, for 2018, how the average proportion of the population with coverage by fixed terrestrial 25/3 Mbps service and mobile LTE service with a minimum advertised speed of 5/1 Mbps varies with census block group-level median household income, census block group-level population density, and census block group-level poverty rate.¹³⁸ On average, deployment is highest in census block groups with the highest median household income, the highest population density, and the lowest poverty rate.

¹³⁷ Data excludes U.S. Territories other than Puerto Rico.

¹³⁸ We present these results at the census block group, the smallest geographic areas for which income data is available, to accurately examine how the deployment rate varies with income measures in the geographic area.

Fig. 7
Average Percentage of Population with Fixed Terrestrial 25/3 Mbps and Mobile LTE with a
Minimum Advertised Speed of 5/1 Mbps by Census Block Group Level Demographic Variable
(As of December 31, 2018)¹³⁹

	Fixed Terrestrial 25/ 3 Mbps	Mobile LTE 5/ 3 Mbps	Both Fixed and Mobile LTE
Median Household Income (\$2018)			
First Quartile (Lowest Median Household Income)	92.2%	99.6%	92.0%
Second Quartile	91.0%	99.8%	90.9%
Third Quartile	93.8%	99.9%	93.7%
Fourth Quartile (Highest Median Household Income)	98.1%	100.0%	98.0%
Population Density			
First Quartile (Lowest Pop. Density)	78.6%	99.3%	78.3%
Second Quartile	97.7%	100.0%	97.6%
Third Quartile	99.0%	100.0%	99.0%
Fourth Quartile (Highest Pop. Density)	99.2%	100.0%	99.2%
Household Poverty Rate			
First Quartile (Lowest Household Poverty Rate)	96.4%	99.9%	96.4%
Second Quartile	93.6%	99.9%	93.5%
Third Quartile	91.8%	99.8%	91.7%
Fourth Quartile (Highest Household Poverty Rate)	93.2%	99.7%	93.0%

45. Figure 8 depicts how the average proportion of the population with coverage by fixed terrestrial services by speed tier varies with census block-level median household income, census block-level population density, and census block-level household poverty rate. On average, deployment is highest in census block groups with the highest median household income, the highest population density and the lowest household poverty rate.

¹³⁹ Data excludes U.S. Territories other than Puerto Rico.

Fig. 8
Average Percentage of Population with Fixed Terrestrial Services
by Census Block Group Level Demographic Variable (As of December 31, 2018)¹⁴⁰

	10/ 1 Mbps	25/ 3 Mbps	50/ 5 Mbps	100/ 10 Mbps	250/ 25 Mbps
Median Household Income (\$2018)					
First Quartile (Lowest Median Household Income)	96.6%	92.2%	87.2%	84.9%	78.1%
Second Quartile	96.3%	91.0%	88.2%	85.2%	78.3%
Third Quartile	97.4%	93.8%	91.1%	88.6%	83.5%
Fourth Quartile (Highest Median Household Income)	99.0%	98.1%	97.2%	96.4%	94.0%
Population Density					
First Quartile (Lowest Pop. Density)	91.0%	78.6%	71.9%	64.8%	53.7%
Second Quartile	98.9%	97.7%	95.6%	94.3%	88.1%
Third Quartile	99.4%	99.0%	98.1%	97.7%	94.7%
Fourth Quartile (Highest Pop. Density)	99.4%	99.2%	97.7%	97.5%	96.6%
Household Poverty Rate					
First Quartile (Lowest Household Poverty Rate)	98.3%	96.4%	94.9%	93.4%	89.8%
Second Quartile	97.3%	93.6%	91.3%	88.8%	83.5%
Third Quartile	96.5%	91.8%	89.1%	86.3%	80.0%
Fourth Quartile (Highest Household Poverty Rate)	96.9%	93.2%	88.3%	86.3%	80.4%

D. Tribal Lands Data

46. In Figures 9 and 10, we present additional deployment estimates for Americans living on Tribal lands for each Tribal lands category.¹⁴¹ The Commission's data indicate that deployment in rural Tribal lands continue to lag deployment in urban Tribal lands.

47. Figure 9 presents deployment on Tribal lands from 2014 to 2018 of fixed terrestrial 25/3 Mbps services and mobile LTE service with a speed of at least 5/1 Mbps. Overall, in 2018, 72.1% of Tribal lands are covered by fixed terrestrial 25/3 Mbps services and mobile LTE with a speed of 5/1 Mbps, based on Form 477 data, an increase from 67.8% in 2017 and 62.4% in 2016. Rural Tribal lands continue to lag behind urban Tribal lands, with only 52.9% of all Tribal lands in rural areas having deployment of both services, as compared to 93.1% of Tribal lands in urban areas. But that 52.9% figure for 2018 is up from 45.7% in 2017 and 37.8% in 2016.

¹⁴⁰ Data excludes U.S. Territories other than Puerto Rico.

¹⁴¹ We group Tribal lands as designated by their 2010 census block delineations. Alaskan Villages include census blocks that are designated as Alaskan Native village statistical areas. Hawaiian Home Lands include census blocks that were established by the Hawaiian Homes Commission Act of 1921. Tribal statistical areas are statistical American Indian areas. These are defined for a federally-recognized Tribe that does not have reservation or off-reservation trust land; specifically, a Tribal-designated statistical area (TDSA) or Oklahoma Tribal statistical area (OTSA). The Lower 48 States category of includes census blocks designated as: (1) Joint Use Areas; (2) legal, federally-recognized American Indian area consisting of reservation and associated off-reservation trust land; (3) legal, federally-recognized American Indian area consisting of reservation only; and (4) legal, federally-recognized American Indian area consisting of off-reservation trust land only. We present more granular state-by-state Tribal lands data in Appx. 6 (Deployment of Fixed Terrestrial 25/3 Mbps Services and/or mobile LTE with a Minimum Advertised Speed of 5/1 Mbps by Tribal Lands and State).

Fig. 9
Deployment (Millions) on Tribal Lands of Fixed Terrestrial 25/3 Mbps and Mobile LTE
with a Minimum Advertised Speed of 5/1 Mbps

	2014		2015		2016		2017		2018	
	Pop.	%	Pop.	%	Pop.	%	Pop.	%	Pop.	%
Tribal Lands	2.206	56.1%	2.258	57.0%	2.491	62.4%	2.722	67.8%	2.914	72.1%
Rural Areas	0.592	29.3%	0.614	30.1%	0.780	37.8%	0.954	45.7%	1.114	52.9%
Urban Areas	1.614	84.5%	1.644	85.6%	1.711	88.8%	1.768	91.6%	1.799	93.1%
Alaskan Villages	0.110	42.9%	0.110	42.7%	0.135	51.5%	0.151	57.0%	0.176	65.9%
Rural Areas	0.039	23.7%	0.039	23.7%	0.061	36.2%	0.073	42.4%	0.093	54.1%
Urban Areas	0.071	77.0%	0.071	76.7%	0.074	79.0%	0.079	83.3%	0.083	87.3%
Hawaiian Homelands	0.032	96.9%	0.030	88.9%	0.030	88.6%	0.030	89.4%	0.030	89.1%
Rural Areas	0.005	83.0%	0.002	43.9%	0.002	43.5%	0.003	47.7%	0.003	47.8%
Urban Areas	0.027	99.8%	0.027	98.0%	0.027	98.0%	0.027	98.2%	0.027	98.2%
Lower 48 States	0.417	38.7%	0.452	41.5%	0.508	46.1%	0.595	53.3%	0.638	56.5%
Rural Areas	0.184	25.6%	0.207	28.4%	0.239	32.3%	0.311	41.3%	0.344	45.1%
Urban Areas	0.233	64.6%	0.245	67.8%	0.270	74.1%	0.284	78.1%	0.293	80.2%
Statistical Areas	1.648	64.2%	1.666	64.5%	1.818	70.2%	1.946	74.8%	2.070	79.4%
Rural Areas	0.365	32.1%	0.365	32.0%	0.478	41.5%	0.567	49.0%	0.674	57.9%
Urban Areas	1.283	89.7%	1.301	90.3%	1.341	93.0%	1.378	95.4%	1.396	96.6%
Pop. Evaluated	3.933	100.0%	3.964	100.0%	3.991	100.0%	4.017	100.0%	4.039	100.0%

48. In Figure 10, we present deployment estimates for fixed terrestrial 25/3 Mbps service and mobile LTE service with a speed of at least 5/1 Mbps on Tribal lands. As of December 31, 2018, fixed terrestrial 25/3 Mbps services is deployed to 72.3% of Americans on Tribal lands, 97.5% are covered by mobile LTE at speeds of at least 5/1 Mbps, and 72.1% are covered by both services. The figures show variability in deployment across the Tribal lands categories, with the least deployment occurring in Alaskan Villages.

Fig. 10
Deployment (Millions) of Fixed Terrestrial 25/3 Mbps and/or Mobile LTE with a Minimum
Advertised Speed of 5/1 Mbps on Tribal Lands (As of December 31, 2018)

	Pop. Evaluated	Fixed 25/3 Mbps		Mobile LTE 5/1 Mbps		Fixed 25/3 Mbps and Mobile LTE 5/1 Mbps		Fixed 25/3 Mbps or Mobile LTE 5/1 Mbps	
		Pop.	% of Pop.	Pop.	% of Pop.	Pop.	% of Pop.	Pop.	% of Pop.
All Tribal Lands	4.039	2.921	72.3%	3.937	97.5%	2.914	72.1%	3.944	97.7%
Alaskan Villages	0.267	0.177	66.5%	0.205	77.0%	0.176	65.9%	0.207	77.6%
Hawaiian Homelands	0.034	0.030	89.1%	0.034	99.9%	0.030	89.1%	0.034	99.9%
Lower 48 States	1.129	0.643	56.9%	1.092	96.7%	0.638	56.5%	1.097	97.2%
Tribal Statistical Areas	2.609	2.072	79.4%	2.605	99.9%	2.070	79.4%	2.606	99.9%

E. Adoption Data

49. We also assess the adoption of fixed broadband service¹⁴² and report adoption rates based upon year-end data from 2014 to 2018. The reported adoption rates are the ratio of residential Form 477 data subscriptions to fixed terrestrial services of at least the designated speed divided by the total number of households in the area where our Form 477 deployment data indicate that fixed terrestrial services of at least the designated speed are deployed.¹⁴³

50. Using Form 477 subscribership data, Figure 11 shows the overall adoption rates¹⁴⁴ from 2014 through 2018 for fixed terrestrial services for the United States (excluding U.S. Territories) as a whole, urban and non-urban core areas, and Tribal lands.¹⁴⁵ The data show year-to-year increases in the adoption of broadband services across the vast majority of areas, including Tribal lands.

¹⁴² We present adoption data for each state and the District of Columbia in an Appendix. *See infra* Appx. 7 (Adoption Rate for Fixed Terrestrial Services in the United States, Including the U.S. Territories (As of December 2018)).

¹⁴³ The subscriber data is reported for the census tract rather than census block. Thus, we aggregate the deployment data up to the census tract. We calculate adoption rates for the following geographic areas: the U.S. as a whole, all urban core census tracts, all non-urban core census tracts, the county (or county equivalent), and for each state and the District of Columbia. A census tract is designated as “Urban Core” if it has a land area less than three square miles and a population density of at least 1,000 people per square mile. A census tract is designated as “Non-Urban Core” if we have not designated the census tract as Urban Core. A census tract is designated Tribal lands if more than 50% of the land area is Tribal land.

¹⁴⁴ The reported adoption rates for 2014 to 2018 are based upon the Form 477 deployment data and subscriber data as of December 31, 2014, December 31, 2015, December 31, 2016, December 31, 2017, and December 31, 2018.

¹⁴⁵ As noted above, figures that include deployment data from 2014-2018 do not include U.S. Territories data. Accordingly, we do not include the U.S. Territories in Figure 11. We report adoption rates, as of December 31, 2018, for each State and U.S. Territory in Appendix 7.

Fig. 11
Overall Adoption Rate for Fixed Terrestrial Services at Different Speed Tiers

	2014	2015	2016	2017	2018
10/1 Mbps					
United States¹⁴⁶	56.0%	62.2%	66.3%	69.7%	73.3%
Non-Urban Core Areas	49.7%	55.8%	60.3%	63.4%	67.4%
Urban Core Areas	60.7%	67.0%	71.0%	74.7%	78.1%
Tribal Lands	35.5%	42.4%	43.1%	46.3%	51.2%
Non-Urban Core Areas	30.6%	36.1%	36.9%	40.4%	45.3%
Urban Core Areas	46.0%	56.8%	59.1%	62.3%	68.1%
25/3 Mbps					
United States	38.5%	48.1%	53.5%	60.2%	65.1%
Non-Urban Core Areas	34.4%	43.2%	48.9%	55.1%	59.9%
Urban Core Areas	41.3%	51.5%	56.9%	64.0%	69.2%
Tribal Lands	27.3%	31.7%	33.4%	37.9%	44.0%
Non-Urban Core Areas	23.3%	28.5%	30.3%	34.5%	38.7%
Urban Core Areas	33.9%	37.1%	39.4%	45.1%	56.1%
50/5 Mbps					
United States	24.8%	33.9%	44.4%	54.8%	60.6%
Non-Urban Core Areas	19.9%	27.8%	41.2%	50.8%	56.4%
Urban Core Areas	28.0%	38.0%	46.7%	57.7%	63.8%
Tribal Lands	22.7%	25.0%	28.9%	34.2%	37.8%
Non-Urban Core Areas	18.0%	20.4%	25.3%	30.9%	34.0%
Urban Core Areas	28.9%	32.0%	34.9%	40.5%	45.6%
100/10 Mbps					
United States	11.2%	16.7%	19.2%	29.6%	45.7%
Non-Urban Core Areas	11.7%	16.4%	17.9%	27.0%	44.3%
Urban Core Areas	11.0%	16.9%	20.0%	31.4%	46.6%
Tribal Lands	7.1%	7.4%	10.5%	18.3%	30.2%
Non-Urban Core Areas	7.4%	6.4%	9.8%	17.0%	26.4%
Urban Core Areas	6.8%	8.7%	11.6%	20.4%	37.3%
250/25 Mbps					
United States	2.5%	4.2%	1.8%	4.1%	5.5%
Non-Urban Core Areas	3.0%	6.7%	2.3%	4.1%	5.0%
Urban Core Areas	2.3%	3.1%	1.6%	4.1%	5.8%
Tribal Lands	0.1%	1.4%	1.8%	4.4%	7.5%
Non-Urban Core Areas	0.2%	1.7%	2.1%	4.5%	8.0%
Urban Core Areas	0.0%	0.2%	1.5%	4.3%	6.7%

51. Figure 12 reports average county-level overall adoption rates for fixed terrestrial services by speed tier against the quartile ranking for median household income, population density, the poverty

¹⁴⁶ All data presented for the United States in Figure 11 excludes U.S. Territories.

rate, and the proportion of the population that resides in a rural area. These data suggest that the average household adoption rate increases with median household income and population density, and the adoption rate decreases as the poverty rate and rural population rate increase.

Fig. 12
Average County Overall Adoption Rate for Fixed Terrestrial Services
by County Level Demographic Variable (As of December 31, 2018)¹⁴⁷

	10/ 1 Mbps	25/ 3 Mbps	50/ 5 Mbps	100/ 10 Mbps	250/ 25 Mbps
Median Household Income (\$2018)					
First Quartile (Lowest Median Household Income)	33.5%	23.4%	22.6%	18.1%	3.7%
Second Quartile	46.7%	37.2%	32.9%	27.4%	3.7%
Third Quartile	53.9%	43.3%	37.9%	30.4%	3.9%
Fourth Quartile (Highest Median Household Income)	67.0%	57.2%	53.0%	39.2%	5.2%
Population Density					
First Quartile (Lowest Median Population Density)	43.5%	30.2%	23.6%	19.3%	5.9%
Second Quartile	39.5%	29.9%	26.4%	20.9%	2.9%
Third Quartile	50.2%	41.8%	38.4%	30.8%	3.1%
Fourth Quartile (Highest Median Population Density)	67.8%	58.9%	59.4%	45.1%	5.1%
Household Poverty Rate					
First Quartile (Lowest Median Poverty Rate)	62.6%	51.6%	47.0%	35.5%	4.9%
Second Quartile	54.1%	44.1%	39.2%	31.4%	4.2%
Third Quartile	48.3%	39.1%	35.1%	28.7%	4.0%
Fourth Quartile (Highest Median Poverty Rate)	36.1%	26.2%	25.2%	19.8%	3.3%
Rural Population Rate					
First Quartile (Lowest Rural Population Rate)	66.8%	58.4%	57.8%	43.6%	5.6%
Second Quartile	52.9%	43.2%	39.7%	31.9%	3.3%
Third Quartile	41.7%	32.3%	28.8%	23.3%	3.2%
Fourth Quartile (Highest Rural Population Rate)	39.5%	26.9%	21.3%	17.1%	4.6%

F. Schools and Classrooms Data

52. We continue to measure availability of advanced telecommunications capability in “elementary and secondary schools and classrooms”¹⁴⁸ using a short-term and long-term goal for broadband connectivity to schools of 100 Mbps per 1,000 students and staff, and 1 Gbps per 1,000 students and staff, respectively.¹⁴⁹ According to the *2019 State of the States Report*, 99% of school

¹⁴⁷ All data presented for the United States in Figure 12 excludes U.S. Territories other than Puerto Rico.

¹⁴⁸ 47 U.S.C. § 1302(b).

¹⁴⁹ See *Modernizing the E-rate Program for Schools and Libraries*, WC Docket No. 13-184, Report and Order and Further Notice of Proposed Rulemaking, 29 FCC Rcd 8870, 8885, para. 34 (2014) (*2014 First E-rate Order*). We use this as the current method of measuring school and classroom connectivity and will address any future needs at (continued....)

districts, or 46.3 million students, now meet the Commission's short-term connectivity goal of 100 Mbps per 1,000 users, up from 44.7 million students in 2018.¹⁵⁰ This means that approximately 750,000 students are not receiving broadband service that meets the short-term connectivity goal.¹⁵¹

53. Regarding the long-term connectivity goal for schools of 1 Gbps per 1,000 users, the *2019 State of the States Report* estimates that, based on the most recent data, 38% of school districts currently meet the goal, which is up from 28% in 2018.¹⁵² The *2019 State of the States Report* also finds that 57% of the smallest rural schools districts and 23% of the 1,000 largest school districts meet the long-term goal.¹⁵³ EducationSuperHighway estimates that 743 schools still need access to fiber to meet the short- and long-term connectivity goals, down 45% from the 1,356 schools without access to fiber in 2018.¹⁵⁴

V. COMMISSION EFFORTS TO CLOSE THE DIGITAL DIVIDE

54. Since the *2019 Report*, the Commission has continued its efforts to accelerate deployment of advanced telecommunications ability and close the digital divide by removing barriers to wireline and wireless investment, modernizing its universal service programs, and making more spectrum available for the commercial marketplace. We discuss highlights of this work, much of which remains ongoing as we continue to work towards ensuring that all Americans, including those in rural areas, Tribal lands, and disaster-affected areas, have the benefits of high-speed broadband.

A. Removing Barriers to Investment

55. Section 706 of the Telecommunications Act of 1996 exhorts the Commission to encourage deployment of advanced communications capability by “remov[ing] barriers to infrastructure investment.”¹⁵⁵ Encouraging investment in broadband deployment is essential to closing the digital divide, and the Commission has continued its efforts in this area.

56. *Wireline Infrastructure.* In July 2019, the Commission adopted a *Notice of Proposed Rulemaking and Declaratory Ruling* to improve broadband deployment and competition in the nation's apartment buildings, condominium complexes, and office buildings, known as multiple tenant environments, or MTEs.¹⁵⁶ Nearly 30% of the U.S. population lives in condominiums or apartments, and

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the appropriate time. See Benton Foundation Comments at 12 (urging the Commission to establish connectivity goals “fit for the rising demands of the next decade”).

¹⁵⁰ See *2019 State of the States Report* at 7-8. EducationSuperHighway reports the Commission's short-term goal in terms of 100 kbps per user, rather than 100 Mbps per 1,000 users, and reports the long-term goal in terms of 1 Mbps per user, rather than 1 Gbps per 1,000 users. *2019 State of the States Report FAQ; 2014 First E-rate Order*, 29 FCC Rcd at 8885, para. 34. We acknowledge that ADTRAN argues that “EducationSuperHighway data will undercount schools that have access to broadband meeting the short-term and long-term benchmarks,” and that American Library Association claims that the Commission “does not have adequate information about the availability of or quality of broadband offered to community anchor institutions.” ADTRAN Comments at 9; American Library Association Reply at 1-1. Neither proposes an alternative source of data currently available to the Commission.

¹⁵¹ *2019 State of the States Report* at 7.

¹⁵² *Id.* at 13-14; EducationSuperHighway, *2018 State of the States Report* at 19 (Oct. 2018) (*2018 State of the States Report*) <https://s3-us-west-1.amazonaws.com/esh-sots-pdfs/2018%20State%20of%20the%20States.pdf>.

¹⁵³ *2019 State of the States Report* at 13.

¹⁵⁴ *Id.* at 7.

¹⁵⁵ 47 U.S.C. § 1302(a).

¹⁵⁶ *Improving Competitive Access to Multiple Tenant Environments, Petition for Preemption of Article 52 of the San Francisco Police Code Filed by the Multiple Family Broadband Council*, GN Docket No. 17-142, MB Docket No. 17-91, Notice of Proposed Rulemaking and Declaratory Ruling, 34 FCC Rcd 5702 (2019), *appeal pending in City & County of San Francisco v. FCC et al.*, Docket No. 19-71832 (9th Cir.).

millions more work in office buildings.¹⁵⁷ To address the unique challenges associated with broadband deployment in MTEs, the Commission took a number of steps, including seeking input on additional actions it could take to accelerate the deployment of next-generation networks and services within MTEs. In particular, the Commission sought comment on the effect that revenue sharing agreements between building owners and broadband providers, exclusivity agreements regarding rooftop facilities, and exclusive wiring arrangements have on broadband competition and deployment.¹⁵⁸ The Commission also clarified that it welcomes state and local experimentation to increase access to MTEs—so long as those actions are consistent with federal law and policy.¹⁵⁹ Finally, the Commission preempted part of an outlier San Francisco ordinance to the extent it required the sharing of in-use wiring in MTEs, as requiring sharing of in-use wiring deters broadband deployment, undercuts the Commission’s rules regarding control of cable wiring in residential MTEs, and threatens the Commission’s framework to protect the technical integrity of cable systems for the benefit of viewers.¹⁶⁰

57. *Wireless Infrastructure.* In April 2019, the Commission proposed to update its rule for over-the-air reception devices (OTARD) to help spur 5G deployment by eliminating the restriction that currently excludes hub and relay antennas from the scope of the rule.¹⁶¹ This proposal is intended to allow fixed wireless providers to deploy these antennas more quickly and efficiently, spurring investment in and deployment of needed infrastructure in a manner that is consistent with the public interest.¹⁶²

58. *Cable Franchising.* In August 2019, the Commission took actions to promote broadband deployment by cable operators through updates to the cable franchising rules.¹⁶³ To facilitate the deployment of broadband infrastructure, the Commission concluded that under the Communications Act, cable-related, non-monetary contributions required by a local franchise are franchise fees subject to the statutory five percent cap, with limited exceptions.¹⁶⁴ The Commission also prohibited local franchising authorities from regulating under Title VI the provision of most non-cable services offered over franchised cable systems, including broadband Internet access service and preempted any state or local regulation of a cable operator’s non-cable services that imposes obligations on franchised cable operators beyond what is permissible under Title VI the Act.¹⁶⁵

59. *Broadband Deployment Advisory Committee.* The Broadband Deployment Advisory Committee (BDAC), a federal advisory committee originally chartered in March 2017, was re-chartered on March 1, 2019. In its second term, the BDAC is continuing its work to craft recommendations for the Commission on ways to accelerate the deployment of broadband by reducing and/or removing regulatory barriers to infrastructure investment and strengthening existing broadband networks in communities

¹⁵⁷ *Id.* at 5703, para. 1.

¹⁵⁸ *Id.* at 5710-20, paras. 14-31.

¹⁵⁹ *Id.* at 5724, paras. 40-41.

¹⁶⁰ *Id.* at 5724-45.

¹⁶¹ *See Updating the Commission’s Rule for Over-the-Air Reception Devices*, WT Docket No. 19-71, Notice of Proposed Rulemaking, 34 FCC Rcd 2695 (2019).

¹⁶² *Id.* at 2697, para. 7.

¹⁶³ *Implementation of Section 621(a)(1) of the Cable Communications Policy Act of 1984 as Amended by the Cable Television Consumer Protection and Competition Act of 1992*, MB Docket No. 05-311, Third Report and Order, 34 FCC Rcd 6844 (2019).

¹⁶⁴ *See id.* at 6849-78, paras. 8-63.

¹⁶⁵ *See id.* at 6879-903, paras. 64-110. The Commission also concluded that requirement concerning local franchising authority regulation of cable operators should apply to state-level franchising actions and state regulations related to local franchising. *See id.* at 6904-07, paras. 111-19.

across the country.¹⁶⁶ The BDAC continues to be a forum for interested stakeholders to exchange ideas and develop recommendations to the Commission on broadband deployment, which in turn enhances the Commission's ability to carry out its statutory responsibility to encourage the deployment of broadband to all Americans.¹⁶⁷

60. The re-chartered BDAC is organized into three working groups, each with a distinct purpose.¹⁶⁸ The Disaster Response and Recovery Working Group is charged with recommending measures to improve resiliency of broadband infrastructure before a disaster occurs, and strategies that can be used during and after the response to a disaster to minimize broadband network downtime.¹⁶⁹ The Broadband Infrastructure Deployment Job Skills and Training Opportunities Working Group is charged with making recommendations on ways to make job skills training more widely available and improve development opportunities for the broadband infrastructure deployment workforce.¹⁷⁰ The Increasing Broadband Investment in Low-Income Communities Working Group is tasked with identifying new ways to encourage the deployment of high-speed broadband infrastructure and services to low-income communities.¹⁷¹

61. This term, the BDAC has worked diligently to fulfill the charges given to it by the Commission. Since the Commission released the *2019 Report*, the BDAC has met three times, on June 13, 2019, September 19, 2019, and December 3, 2019, during which the BDAC members have discussed their charges and the progress being made by the working groups toward developing final reports for consideration and approval by the full BDAC.¹⁷² The BDAC has three meetings scheduled for 2020 where the working groups are expected to present their recommendations.

62. *Precision Agriculture Connectivity Task Force.* The Agriculture Improvement Act of 2018 directed the Commission to establish a task force to examine and promote broadband service on agricultural land.¹⁷³ Chairman Pai chartered the Precision Agriculture Connectivity Task Force under the Federal Advisory Committee Act for a two-year term to make policy recommendations on how to

¹⁶⁶ *FCC Announces Re-Chartered BDAC Membership and First Meeting*, GN Docket No. 17-83, Public Notice, 34 FCC Rcd 3251 (2019), at 1 (*2019 Re-Chartered BDAC PN*).

¹⁶⁷ *Id.*

¹⁶⁸ On July 1, 2019, Chairman Pai appointed members to serve on two new working groups of the BDAC: the Broadband Infrastructure Deployment Job Skills and Training Opportunities Working Group, and the Increasing Broadband Investment in Low-Income Communities Working Group. *FCC Announces the Membership of Two Broadband Deployment Advisory Committee Working Groups*, GN Docket No. 17-83, Public Notice, 34 FCC Rcd 5226 (2019). This followed the 2018 appointment of members to the Disaster Response and Recovery Working Group during the first BDAC. The Disaster Response and Recovery Working Group was re-chartered to continue its work during the current term. *See FCC Seeks Applicants for BDAC Disaster Response and Recovery Group*, Public Notice, DA 18-837 (WCB Aug. 9, 2018).

¹⁶⁹ *2019 Re-Chartered BDAC PN*, 34 FCC Rcd 3251, at 1.

¹⁷⁰ *Id.* at 2.

¹⁷¹ *Id.* at 1.

¹⁷² *See 2019 Re-Chartered BDAC PN*, 34 FCC Rcd 3251, at 1; *FCC Announces the Next Meeting of the Broadband Deployment Advisory Committee*, GN Docket No. 17-83, Public Notice, 34 FCC Rcd 7714 (2019); *FCC Announces the Next Meeting of the Broadband Deployment Advisory Committee*, GN Docket No. 17-83, Public Notice, 34 FCC Rcd 9557 (2019). Video from each of the 2019 BDAC meetings and links to related materials can be found on the Commission's BDAC page: <https://www.fcc.gov/broadband-deployment-advisory-committee>.

¹⁷³ Agriculture Improvement Act of 2018, Pub. L. No. 115-334, 132 Stat. 4490, § 12511(b)(2) (2018 Farm Bill). The Precision Agriculture Connectivity Task Force will perform duties and submit reports consistent with Section 12511 of the 2018 Farm Bill and in consultation with the Department of Agriculture in successive terms until the Task Force ends on January 1, 2025.

accelerate broadband deployment on agricultural lands.¹⁷⁴ The Task Force will examine policy, regulatory, and technical solutions to encourage the adoption of broadband on farms and ranches and promote the advancement of precision agriculture in the United States.¹⁷⁵ In November 2019, Chairman Pai, in consultation with Secretary of Agriculture Sonny Perdue, appointed fifteen members of the Task Force including agricultural producers representing diverse geographic regions and farm sizes, equipment manufacturers, and industry representatives, as well as Tribal, state and local government representatives.¹⁷⁶ The Precision Agriculture Task Force held its first meeting in December 2019. Four working groups will assist the Task Force in carrying out its work: (1) mapping and analyzing connectivity on agricultural lands; (2) examining current and future connectivity demand for precision agriculture; (3) encouraging adoption of precision agriculture and availability of high-quality jobs on connected farms; and (4) accelerating broadband deployment on unserved agricultural lands.¹⁷⁷ The Precision Agriculture Connectivity Task Force will begin to present recommendations later this year.

B. Universal Service Fund

63. Universal service plays an essential role in deploying broadband networks and encouraging competition. The Commission's Universal Service Fund (USF) provides funding to increase the availability of fixed and mobile broadband services in unserved rural areas.¹⁷⁸ The Fund targets support to these areas and, as part of its oversight responsibilities, the Commission routinely considers ways to maximize the effect of available USF funding to support broadband deployment.¹⁷⁹

64. *High-Cost Reforms.* The Commission has successfully conducted the Connect America Fund Phase II auction to award funding to service providers that commit to offer voice and broadband services to fixed locations in unserved high-cost areas. In 2018, the Phase II auction awarded more than \$1.488 billion over ten years to 103 winning bidders to serve more than 713,000 rural homes and businesses.¹⁸⁰ The Commission began authorizing Phase II Auction funding in May 2019,¹⁸¹ authorizing a

¹⁷⁴ *FCC Announces the Establishment of the Task Force for Reviewing Connectivity and Technology Needs of Precision Agriculture in the United States and Seeks Nominations for Membership*, Public Notice, 34 FCC Rcd 5057 (2019) (*Precision Agriculture Task Force Public Notice*); Precision Agriculture Advisory Committee Charter (December 2019), <https://www.fcc.gov/sites/default/files/precision-ag-task-force-charter-12042019.pdf>.

¹⁷⁵ *Precision Agriculture Task Force Public Notice*, 34 FCC Rcd at 5057.

¹⁷⁶ *FCC Announces the Membership of and First Meeting of the Task Force for Reviewing the Connectivity and Technology Needs of Precision Agriculture in the United States*, GN Docket No. 19-329, Public Notice, 34 FCC Rcd 10493 (2019) (*Precision Agriculture Task Force Membership Public Notice*).

¹⁷⁷ *Precision Agriculture Task Force Membership Public Notice*, 34 FCC Rcd at 10493; *FCC Announces the Membership of the Working Groups of the Task Force for Reviewing the Connectivity and Technology Needs of Precision Agriculture in the United States*, GN Docket No. 19-329, Public Notice, DA 20-260 (Mar. 13, 2020).

¹⁷⁸ *Connect America Fund et al.*, Report and Order and Further Notice of Proposed Rulemaking, 26 FCC Rcd 17663, 17668-69, paras. 1-5 (2011) (*USF/ICC Transformation Order*), *aff'd sub nom. In re: FCC 11-161*, 753 F.3d 1015 (10th Cir. 2014).

¹⁷⁹ *Connect America Fund; ETC Annual Reports and Certifications; Establishing Just and Reasonable Rates for Local Exchange Carriers; Developing a Unified Intercarrier Compensation Regime*; WC Docket Nos. 10-90, 14-58, and 07-135, CC Docket No. 01-92; Report and Order, Third Order on Reconsideration, and Notice of Proposed Rulemaking, 33 FCC Rcd 2990, 2992, para. 4 (2018) (taking several steps to increase broadband deployment in rural areas through the High Cost program, including maximizing available funding for broadband networks); *Promoting Telehealth in Rural America*, WC Docket No. 17-310, Report and Order, 33 FCC Rcd 6574, para. 1 (2018) (*Telehealth Report and Order*) (increasing the funding cap for the Rural Healthcare program to \$571 million to prevent pro-rata funding reductions that could have disproportionately affected rural health care providers, especially those in Alaska).

¹⁸⁰ *Connect America Fund Phase II Auction Scheduled for July 24, 2018 Notice and Filing Requirements and Other Procedures for Auction 903*, AU Docket No. 17-182, WC Docket No. 10-90, Public Notice, 33 FCC Rcd 1428 (2018); *220 Applicants Qualified to Bid in the Connect America Fund Phase II Auction (Auction 903); Bidding to* (continued....)

total of ten waves of support through March 2020.¹⁸² As of March 2020, the Commission has authorized a total of nearly \$1.4 billion in Phase II auction funding, which is expanding connectivity to 627,000 homes and small businesses nationwide.¹⁸³ Funding rounds will continue until the authorization process is complete.

65. Building on the success of the CAF Phase II auction, this past January the Commission established the Rural Digital Opportunity Fund, as it had proposed to do in an August 2019 Notice of Proposed Rulemaking.¹⁸⁴ The Rural Digital Opportunity Fund will provide up to \$20.4 billion to expand broadband in unserved rural areas, representing the Commission's biggest single step to date toward closing the rural digital divide.¹⁸⁵ Phase I of the Rural Digital Opportunity Fund will allocate up to \$16 billion in funding over the next decade targeting areas that current data show are wholly unserved by 25/3 Mbps broadband and voice.¹⁸⁶ The Phase I auction will use a multi-round, reverse auction that favors bids offering faster services with lower latency and encourages intermodal competition to ensure that the greatest possible number of Americans will be connected to the best possible networks, all at a competitive cost.¹⁸⁷ Phase II of the Rural Digital Opportunity Fund will use granular, precise broadband availability maps being developed in the Commission's *Digital Opportunity Data Collection* proceeding to allocate at least \$4.4 billion to target unserved locations within partially served areas, as well as any areas not won in Phase I.¹⁸⁸

66. In addition, the Commission continues to work to close the digital divide through other initiatives focused on small, rural carriers serving high-cost areas, known as rate-of-return carriers. Most recently, in August 2019, the Commission authorized over \$4.9 billion in support for rate-of-return carriers for maintaining, improving, and expanding broadband in rural areas over the next decade.¹⁸⁹ This support will ensure broadband access for approximately 455,000 homes and businesses served by 171 carriers in 40 states and territories, including more than 44,000 locations on Tribal lands.¹⁹⁰

67. In May 2018, in an effort to make additional universal service support available to rebuild fixed and mobile voice and broadband networks damaged in the 2017 hurricane season, the

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Begin on July 24, 2018, AU Docket No. 17-182, WC Docket No. 10-90, Public Notice, 33 FCC Rcd 6171 (2018) (announcing the qualified bidders for the auction and confirming timing); *Connect America Fund Phase II Auction (Auction 903) Closes; Winning Bidders Announced*, AU Docket No. 17-182, WC Docket No. 10-90, Public Notice, 33 FCC Rcd 8257 (2018).

¹⁸¹ News Release, FCC, FCC Authorizes \$521,000 to Tribal Provider to Bring Broadband to Rural Idaho (Mar. 16, 2020), <https://docs.fcc.gov/public/attachments/DOC-363069A1.pdf>.

¹⁸² News Release, FCC, FCC Authorizes Nearly \$89.2 Million in Funding for Rural Broadband (Dec. 16, 2019), <https://docs.fcc.gov/public/attachments/DOC-361387A1.pdf>.

¹⁸³ *Id.*

¹⁸⁴ *Rural Digital Opportunity Fund Order*, 35 FCC Rcd at 687, para. 2.; *Rural Digital Opportunity Connect America Fund*, WC Dockets No. 19-126, 10-90, Notice of Proposed Rulemaking, 34 FCC Rcd 6778 (2019) (*Rural Digital Opportunity Fund NPRM*).

¹⁸⁵ *Rural Digital Opportunity Fund Order*, 35 FCC Rcd at 687, para. 2.

¹⁸⁶ *Id.* at 689-90, para. 8.

¹⁸⁷ *Id.* at 688, para. 5, 694-95, paras. 17-18.

¹⁸⁸ *Id.* at 688, para. 5, 690, para. 9.

¹⁸⁹ See *Wireline Competition Bureau Authorizes 171 Rate-of-Return Companies to Receive \$491 Million Annually in Alternative Connect America Cost Model II Support to Expand Rural Broadband*, WC Docket No. 10-90, Public Notice, 34 FCC Rcd 7271 (WCB 2019).

¹⁹⁰ News Release, FCC, FCC Authorizes Support for Broadband in Over 44,000 Tribal Homes and Businesses Nationwide (Aug. 22, 2019), <https://docs.fcc.gov/public/attachments/DOC-359226A1.pdf>.

Commission established the Uniendo a Puerto Rico Fund (“Bringing Puerto Rico Together”) and the Connect USVI Fund.¹⁹¹ In September 2019, the Commission approved nearly \$950 million in Stage 2 funding to improve, expand, and harden communications networks in Puerto Rico and the U.S. Virgin Islands.¹⁹² To accomplish these goals in Puerto Rico, the Commission will allocate more than \$500 million over ten years in fixed broadband support and more than \$250 million over three years in mobile broadband support.¹⁹³ In the U.S. Virgin Islands, the Commission allocated more than \$180 million over ten years in support for fixed networks, more than \$4 million over three years for mobile networks.¹⁹⁴ Fixed broadband support will be awarded through a competitive process, in which service providers will bid to serve every location in each covered area with storm-hardened networks at up to gigabit speeds.¹⁹⁵ Support for mobile services is allocated to providers that were offering mobile services in Puerto Rico and the U.S. Virgin Islands prior to the hurricanes to expand and harden 4G LTE networks and deploy next-generation 5G networks.¹⁹⁶

68. In October 2019, the Commission approved performance testing procedures for all carriers receiving high-cost support to deploy fixed broadband networks to unserved Americans living in rural areas.¹⁹⁷ The Commission maintained an existing requirement that carriers conduct quarterly speed and latency tests between specified numbers of active subscribers’ homes and the Internet and made targeted modifications to the testing procedures.¹⁹⁸ These procedures will help to ensure that rural Americans have access to the same high-quality networks as Americans in urban areas, while also ensuring that carriers remain accountable to consumers, taxpayers, and the Commission, and are delivering the network performance they have committed to provide.

69. *Rural Health Care Reforms.* The Commission’s Rural Health Care (RHC) Program has long supported vital telehealth services and helps rural communities overcome obstacles to accessing healthcare. As the demand for telemedicine has increased, the RHC Program has witnessed a dramatic increase in health care provider participation, which in turn has put extreme demands on limited Program funding. Following on reforms to the RHC Program that the Commission adopted in 2017 and 2018,¹⁹⁹ the Commission adopted a *Report and Order* on August 1, 2019 reforming the distribution of RHC funding.²⁰⁰ In the *Rural Health Care Reform Order*, the Commission revised the rules governing the

¹⁹¹ *Connect America Fund*, WC Docket No. 10-90, Order, 32 FCC Rcd 7981 (2017); *The Uniendo a Puerto Rico Fund and the Connect USVI Fund*, Order and Notice of Proposed Rulemaking, WC Docket No. 18-143, 33 FCC Rcd 5404 (2018); *Connect America Fund*, WC Docket No. 10-90, Order, 32 FCC Rcd 7981 (2017).

¹⁹² *The Uniendo a Puerto Rico Fund and the Connect USVI Fund; Connect America Fund; ETC Annual Reports and Certifications*, WC Docket Nos. 18-143 et al., Report and Order and Order on Reconsideration, 34 FCC Rcd 9109, 9110, para. 3 (2019).

¹⁹³ *Id.* at 9146, para. 67.

¹⁹⁴ *Id.* at 9163, para. 102.

¹⁹⁵ *Id.* at 9114-43, paras. 11-66.

¹⁹⁶ *Id.* at 9162-34, paras. 101-32.

¹⁹⁷ See News Release, FCC, FCC Takes Steps to Enforce Quality Standards for Rural Broadband Networks (Oct. 25, 2019), <https://docs.fcc.gov/public/attachments/DOC-360424A1.pdf>; *Connect America Fund*, WC Docket No. 10-90, Order on Reconsideration, 34 FCC Rcd 10109 (2019) (*CAF Performance Standards Order on Reconsideration*).

¹⁹⁸ *CAF Performance Standards Order on Reconsideration*, 34 FCC Rcd at 10112-16, paras. 12-19, 10124-26, paras. 18-19, 10139-49, paras. 39-49, 10156-94, paras. 130-44.

¹⁹⁹ See *Promoting Telehealth in Rural America*, WC Docket No. 17-310, Notice of Proposed Rulemaking and Order, 32 FCC Rcd 10631, 10639-71, paras. 15-117 (2017); *Promoting Telehealth in Rural America*, WC Docket No. 17-310, Report and Order, 33 FCC Rcd 6574, 6578-85, paras. 10-28 (2018).

²⁰⁰ *Promoting Telehealth in Rural America*, WC Docket No. 17-310, Report and Order, 34 FCC Rcd 7335 (2019) (*Rural Health Care Reform Order*).

Telecom Program to simplify calculation of the urban rate (the amount health care providers pay) and the rural rate (the rate provided to customers in comparable rural areas),²⁰¹ and adjust the Telecom Program's \$150 million annual cap on multi-year and upfront payment requests annually for inflation.²⁰² Other reforms outlined in the *Rural Health Care Reform Order* include targeting funding to rural areas in the most need of health care services funding by prioritizing support based on rurality and whether the area is medically underserved when demand exceeds available funding, increasing the effectiveness of competitive bidding, and streamlining program administration.²⁰³

70. In addition, on March 13, 2020, in an effort to help ensure that healthcare providers have the resources they need to promote telehealth solutions, the Commission adopted an Order to fully fund all eligible Rural Health Care Program services for Funding Year 2019 with an additional \$42.19 million in funding.²⁰⁴ The Order permits USAC to carry forward additional unused funds from prior years to cover a funding gap between demand and available funding, and waives the cap on multi-year commitments and upfront payments that would have resulted in unnecessary reductions in support for rural health care providers and their patients.²⁰⁵

71. *Connected Care Pilot Program.* On March 31, 2020, the Commission adopted a Report and Order establishing a three-year, \$100 million Connected Care Pilot Program to help defray the cost of bringing telehealth services directly to low-income patients and veterans.²⁰⁶ The Connected Care Pilot Program will provide an 85% discount on qualifying broadband connectivity for broadband-enabled telehealth services that connect patients directly to their health care providers and are used to treat a wide range of health conditions.²⁰⁷ These services can facilitate the effective treatment of chronic conditions outside of the health care provider's office at significant cost savings for patients and health care providers. Data gathered through the Pilot Program will be used to analyze how USF funds can support health care provider and patient use of connected care services and the possible benefits that support of broadband service for connected care may bring.²⁰⁸

72. At the same time that we adopted the Connected Care Pilot Program, we also established the COVID-19 Telehealth Program in response to the Coronavirus Aid, Relief, and Economic Security (CARES) Act, signed into law on March 27, 2020 in response to the COVID-19 outbreak.²⁰⁹ Under this standalone initiative the Commission will provide \$200 million "to support health care providers in the fight against the ongoing pandemic."²¹⁰

73. *E-Rate.* The Commission's E-Rate program is a vital source of support for connectivity to, and within, schools and libraries. In December 2019, the Commission released a *Report and Order* making permanent the "category two budget" approach for funding internal connections in schools and libraries, which consists of five-year budgets that provide a set amount of funding to support these

²⁰¹ *Id.* at 7354-72, paras. 38-75. The Telecom Program provides a discount to service providers equal to the difference between the urban and rural rates. *See id.* at 7341, para. 10; *see also* 47 U.S.C. § 254(h)(1)(A).

²⁰² *Rural Health Care Reform Order*, 34 FCC Rcd at 7400-02, paras. 138-40.

²⁰³ *Id.* at 7385-430, paras. 107-202.

²⁰⁴ *Rural Health Care Support Mechanism*, WC Docket No. 02-60, Order, FCC 20-30, paras. 8-9 (Mar. 13, 2020).

²⁰⁵ *Id.*

²⁰⁶ *Promoting Telehealth for Low-Income Consumers; COVID-19 Telehealth Program*, WC Docket No. 18-213, WC Docket No. 20-89, Report and Order, FCC 20-44, at para. 5 (rel. Apr. 2, 2020).

²⁰⁷ *Id.* at para. 38.

²⁰⁸ *Id.* at para. 5.

²⁰⁹ *Id.* at para. 2.

²¹⁰ *Id.*

internal connections.²¹¹ Following a five-year test period,²¹² the Commission concluded that the category two budget approach has provided broader, more equitable, and more predictable funding for schools and libraries than under the prior rules.²¹³ The budget amount provided to schools and libraries during the test period also proved to be successful, and, the Commission intends to generally remain within those parameters of support going forward.²¹⁴

74. To further promote the deployment of high-speed networks to unserved and underserved schools and libraries, in January 2020, the Commission voted to permanently eliminate the requirement that E-Rate applicants amortize over three years upfront, non-recurring category one charges of \$500,000 or more, including charges for special construction projects.²¹⁵ The Commission determined that suspension of the amortization requirement had created a more certain path for reimbursement, which made applicants and service providers more willing to invest in new broadband infrastructure, resulting in lower costs to both applicants and the USF.²¹⁶

75. *Improving Broadband Deployment Data.* On August 1, 2019, the Commission adopted the *Digital Opportunity Data Collection Order*, in which we initiated a new data collection, the Digital Opportunity Data Collection, for collecting fixed broadband data to better pinpoint where broadband is available to consumers and where service is lacking.²¹⁷ The Digital Opportunity Data Collection will collect geospatial broadband coverage maps from fixed and mobile broadband Internet service providers depicting the areas where they make fixed service available.²¹⁸ This geospatial data will facilitate development of granular, high-quality fixed broadband deployment maps, which will improve the Commission's ability to target support for broadband expansion through the agency's Universal Service Fund programs.²¹⁹ The Commission also adopted a process to collect public input on the accuracy of

²¹¹ *Modernizing the E-Rate Program for Schools and Libraries*, WC Docket No. 13-184, Report and Order, 34 FCC Rcd 11219, 11219-20, para. 1 (2019).

²¹² See *Modernizing the E-Rate Program for Schools and Libraries*, WC Docket No. 13-184, Report and Order and Further Notice of Proposed Rulemaking, 29 FCC Rcd 8870, 8898-922, Section IV.B. (2014); *Modernizing the E-Rate Program for Schools and Libraries*; *Connect America Fund*, WC Docket Nos. 13-184, 10-90, Second Report and Order and Order on Reconsideration, 29 FCC Rcd 15538, 15571-78, Section III.A. (2014).

²¹³ *Modernizing the E-Rate Program for Schools and Libraries*, 34 FCC Rcd at 11220, para. 2.

²¹⁴ *Id.*

²¹⁵ *E-Rate Program Amortization Requirement, Modernizing the E-Rate Program for Schools and Libraries*, WC Docket Nos. 19-2, 13-184, Report and Order, 35 FCC Rcd 672, 672-73, para. 2 (2020) (*E-Rate Amortization Elimination Order*); see also *E-Rate Program Amortization Requirement, Modernizing the E-Rate Program for Schools and Libraries*, WC Docket Nos. 19-2, 13-184, Notice of Proposed Rulemaking and Order, 34 FCC Rcd 785 (2019). The components of special construction costs eligible for E-Rate discounts include costs for design and engineering, project management, digging trenches, and laying fiber. See *Modernizing the E-rate Program for Schools and Libraries*, WC Docket No. 13-184, Order, 31 FCC Rcd 9767, 9775 (2016); *Schools and Libraries Universal Service Support Mechanism, A National Broadband Plan for our Future*, CC Docket No. 02-6, GN Docket No. 09-51, Order, 25 FCC Rcd 18762, 18773 n.54 (2010).

²¹⁶ *E-Rate Amortization Elimination Order*, 35 FCC Rcd at 674-75, paras. 8-9.

²¹⁷ *Digital Opportunity Data Collection Order*, 34 FCC Rcd 7505. In a Second Further Notice of Proposed Rulemaking, the Commission also sought comment on how best to incorporate mobile wireless voice and broadband coverage into the Digital Opportunity Data Collection, and on how to implement a database of broadband-serviceable structures. *Id.* at 7549, para. 112.

²¹⁸ *Id.* at 7506, para. 2.

²¹⁹ *Id.* at 7509, paras. 10-11.

service providers' broadband maps, facilitated by a crowd-sourcing portal that will gather input from consumers as well as from state, local, and Tribal governments.²²⁰

76. *Promoting Broadband Access for Veterans.* In May 2019, the Wireline Competition Bureau submitted a report to Congress examining the current state of broadband access and adoption by veterans, and providing recommendations on how to promote their access to broadband, so that they may fully participate in the digital economy.²²¹ In the *Veterans Broadband Access Report*, the Bureau found that, while many veterans have access to both fixed and mobile broadband options, a significant number still lack access to fixed broadband, mobile broadband, or both.²²² Additionally, the Bureau found that households with veterans subscribe to mobile broadband services at lower rates than households without veterans, and that barriers to broadband adoption for veterans may include lack of deployment where they live, price, and digital illiteracy or perceived irrelevance.²²³

77. *Tribal Lands.* In May 2019, the Consumer and Governmental Affairs Bureau, Wireless Telecommunications Bureau, and Wireline Competition Bureau submitted a report to Congress providing an analysis of broadband deployment on Tribal lands.²²⁴ The *Tribal Lands Broadband Access Deployment Report* shows that, while deployment to Tribal lands has increased in recent years, Tribal lands experience lower rates of both fixed and mobile broadband deployment as compared to non-Tribal areas of the United States, particularly in rural areas.²²⁵ The *Tribal Lands Broadband Access Deployment Report* also describes in detail the Commission's efforts to leverage its available programs to increase the availability of broadband on Tribal lands, including universal service program reforms, expanded direct consultation with Tribes, and making available additional, valuable spectrum resources.²²⁶ The Commission took steps in the *Rural Digital Opportunity Fund Order* to specifically target broadband deployment in census blocks on rural Tribal lands. Specifically, we adopted a policy that has the effect of increasing the auction reserve price for serving such census blocks compared to the typical census blocks eligible for the auction, which we expect will encourage deployment on Tribal lands.²²⁷

C. Access to Spectrum

78. Since release of the *2019 Report*, the Commission has continued efforts to expand access to spectrum to support 5G and other advanced wireless services. With respect to high-band spectrum, the Commission, in March of 2019, concluded the first of its *Spectrum Frontiers* auctions. Auction 101 made a total of 850 megahertz of 28 GHz band spectrum available and raised over \$700 million dollars for the U.S. Treasury.²²⁸ Shortly thereafter Auction 102 made 700 megahertz of 24 GHz band spectrum

²²⁰ *Id.* at 7506, para. 3, 7521-37, paras. 35-75.

²²¹ FCC, WCB, Report on Promoting Broadband Internet Access Service for Veterans, Pursuant to the Repack Airwaves Yielding Better Access for Users of Modern Services Act of 2018 (WCB 2019), <https://docs.fcc.gov/public/attachments/DOC-357270A1.pdf> (*Veterans Broadband Access Report*).

²²² *Id.* at 5-11.

²²³ *Id.* at 10, 12-13.

²²⁴ FCC, CGB, WTB, and WCB, Report on Broadband Deployment in Indian Country, Pursuant to the Repack Airwaves Yielding Better Access for Users of Modern Services Act of 2018 (2019), <https://docs.fcc.gov/public/attachments/DOC-357269A1.pdf> (*Tribal Lands Broadband Access Deployment Report*).

²²⁵ *Id.* at 1.

²²⁶ *Id.* at 9-18.

²²⁷ *Rural Digital Opportunity Fund Order*, 35 FCC Rcd at 694, para. 16.

²²⁸ *Auction of 28 GHz Upper Microwave Flexible Use Service Licenses for Next-Generation Wireless Services Closes; Gross Winning Bids Amounts Announced for Auction 101*, AU Docket No. 18-85, Public Notice, 34 FCC Rcd 75, 75, para. 1 (2019).

available and raised over \$2 billion dollars for the U.S. Treasury.²²⁹ On December 10, 2019, the Commission began auctioning spectrum in the Upper 37 GHz, 39 GHz, and 47 GHz bands that collectively will make 3,400 megahertz of spectrum available.²³⁰ This auction, Auction 103, concluded on March 5, 2020 and raised \$7.6 billion in gross auction proceeds.²³¹

79. The Commission also has improved access to mid-band spectrum. First, the Commission took several steps to open the 3.5 GHz band for commercial use. The 3.5 GHz band will allow access to up to 150 megahertz of spectrum for shared federal and non-federal use of the band among and between users, classified into one of three tiers of authorization: Incumbent Access (most protected), Priority Access, and General Authorized Access (least protected).²³² This three-tiered, dynamic sharing framework is facilitated by an automated frequency coordinator, known as a Spectrum Access System (SAS).²³³ The Commission recently certified the first group of SAS Administrators for full commercial deployments,²³⁴ and it adopted procedures for an auction of up to seven, 10-megahertz Priority Access Licenses (PALs) in the 3550-3650 MHz band, which is scheduled to begin on July 23, 2020.²³⁵

80. Second, the Commission reformed the regulatory framework for a portion of the 2.5 GHz band (2496-2690 MHz), which is the largest band of contiguous spectrum below 3 gigahertz, to make this spectrum more available for advanced wireless services, including 5G.²³⁶ As part of this effort, the

²²⁹ *Auctions of Upper Microwave Flexible Use Licenses for Next-Generation Wireless Services et al.*, AU Docket No. 18-85, Public Notice, 33 FCC Rcd 4103, 4105, paras. 2-3 (2018); Press Release, FCC, FCC Concludes First High-Band 5G Airwaves Auctions (rel. May 28, 2019), <https://docs.fcc.gov/public/attachments/DOC-357702A1.pdf>.

²³⁰ *Use of Spectrum Bands Above 24 GHz For Mobile Radio Services*, GN Docket No. 14-177, Fourth Report and Order, 33 FCC Rcd 12168, 12169, para. 2 (2018); Press Release, FCC, FCC's Next 5G Spectrum Auction Is Underway (Dec. 10, 2019), <https://docs.fcc.gov/public/attachments/DOC-361255A1.pdf>.

²³¹ *Incentive Auction of Upper Microwave Flexible Use Service Licenses in the Upper 37 GHz, 39 GHz, and 47 GHz Bands for Next-Generation Wireless Services Closes; Winning Bidders Announced for Auction 103*, AU Docket No. 19-59, Public Notice, DA 20-253, para. 2 (rel. Mar. 12, 2020).

²³² *See Amendment of the Commission's Rules with Regard to Commercial Operations in the 3550-3650 MHz Band*, GN Docket No. 12-354, Report and Order and Second Further Notice of Proposed Rulemaking, 30 FCC Rcd 3959, 3961, para. 4 (2015) (*3.5 GHz Order and Second FNPRM*); *Auction of Priority Access Licenses for the 3550-3650 MHz Band; Comment Sought on Competitive Bidding Procedures for Auction 105*, AU Docket No. 19-244, Public Notice, 34 FCC Rcd 9215, 9217, para. 5 (2019) (*Auction 105 Comment Notice*); *Auction 105: 3.5 GHz*, <https://www.fcc.gov/auction/105> (last visited Mar. 2, 2020).

²³³ *See 3.5 GHz Order and Second FNPRM*, 30 FCC Rcd at 3985-87, paras. 80-86; *Auction 105 Comment Notice*, 34 FCC Rcd at 9216-17, para. 3.

²³⁴ *Wireless Telecommunications Bureau and Office of Engineering and Technology Approve Four Spectrum Access System Administrators for Full Scale Commercial Deployment in the 3.5 GHz Band and Emphasize Licensee Compliance Obligations in the 3650-3700 MHz Band Under Part 96*, GN Docket No. 15-319, Public Notice, DA 20-110 (WTB Jan. 27, 2020); *3.5 GHz Band Overview*, FCC.gov, <https://www.fcc.gov/wireless/bureau-divisions/mobility-division/35-ghz-band/35-ghz-band-overview> (last visited Mar. 2, 2020).

²³⁵ *See Auction of Priority Access Licenses for the 3550-3650 MHz Band Rescheduled to Begin July 23, 2020; Auction 105 Short-Form Application Deadline Postponed to May 7, 2020*, AU Docket No. 19-244, Public Notice, DA 20-330 (OEA-WTB Mar. 25, 2020); *see also Auction of Priority Access Licenses for the 3550-3650 MHz Band; Notice and Filing Requirements, Minimum Opening Bids, Upfront Payments, and Other Procedures for Auction 105; Bidding in Auction 105 Scheduled to Begin June 25, 2020*, AU Docket No. 19-244, Public Notice, FCC 20-18 (Mar. 2, 2020).

²³⁶ *Transforming the 2.5 GHz Band*, WT Docket No. 18-120, Report and Order, 34 FCC Rcd 5446, 5447, 5450, paras. 3, 13 (2019) (*2.5 GHz Order*). (In this Report and Order, the Commission replaced the regulatory framework for the Educational Broadband Service, which is comprised of twenty channels (for a total of 112.5 megahertz), with one of flexible use). *See id.* at 5447, 5450, paras. 4, 13.

Commission allowed for more efficient and effective use of the spectrum by incumbent licensees, adopted a rural Tribal priority filing window to give Tribal entities the opportunity to license unassigned spectrum for the deployment of advanced wireless services on rural Tribal lands, and announced that it would make any remaining unassigned spectrum available for commercial use via competitive bidding.²³⁷ The rural Tribal priority window opened on February 3, 2020, and will remain open until August 3, 2020.²³⁸ Commission staff have conducted extensive outreach following adoption of the 2019 2.5 GHz Order to provide interested, eligible Tribes with information and assistance on how to apply for spectrum during the window.²³⁹

81. Third, the Commission adopted an order to make 280 megahertz of the 3.7-4.2 GHz band available for 5G services while relocating existing satellite operations to the upper part of the band.²⁴⁰ The 3.7-4.2 GHz band is immediately adjacent to the 3.5 GHz band, which the Commission also made available for expanded deployment of advanced wireless services.²⁴¹ Moreover, several international governing bodies are reviewing the suitability of the 3.7-4.2 GHz band for next-generation 5G wireless services.²⁴² In its *Report and Order and Order of Proposed Modification*, the Commission found that licensing 280 megahertz of the 3.7-4.2 GHz band for flexible use would “lead to substantial economic gains, with some economists estimating billions of dollars in increases on spending, new jobs, and America’s economy.”²⁴³ At the same time the Commission adopted the *Report and Order and Order of Proposed Modification*, the agency sought comment on bidding procedures for an auction beginning in December 8, 2020 of new, flexible-use overlay licenses in the 3.7-3.98 GHz band.²⁴⁴

82. Fourth, the Commission recently proposed to reallocate all or a portion of spectrum in the 5.9 GHz band (5.850-5.925) to new advanced uses.²⁴⁵ Over the past two decades, the Commission reserved this 75 megahertz of spectrum for use by Dedicated Short-Range Communications (DSRC), a service whose rules and protocols were designed to enable transportation and vehicle safety-related communications.²⁴⁶ Since that time, the DSRC service has not been widely deployed within the consumer

²³⁷ See *id.* at 5450, 5463, 5472, paras. 14, 47, 75; see also *Federal Communications Commission Announces 2.5 GHz Rural Tribal Window and Technical Workshop*, WT Docket No. 18-120, Public Notice, 34 FCC Rcd 11138 (WTB 2019) (2.5 GHz Rural Tribal Window Public Notice); *Wireless Telecommunications Bureau Announces Procedures for 2.5 GHz Rural Tribal Priority Window*, WT Docket No. 18-120, Public Notice, DA 20-18 (WTB Jan. 6, 2020).

²³⁸ See 2.5 GHz Rural Tribal Window Public Notice.

²³⁹ The Commission has established a dedicated website that provides access to information regarding the window, including the location and dates of outreach and education opportunities. 2.5 GHz Rural Tribal Window. | Federal Communications Commission, <https://www.fcc.gov/RuralTribalWindow> (last visited Mar. 25, 2020). The Commission has also created a dedicated mapping tool to assist Tribes in assessing their eligibility and the amount of unassigned 2.5 GHz spectrum over their Rural Tribal Lands. 2.5 GHz Rural Tribal Maps. | Federal Communications Commission, <https://www.fcc.gov/25-ghz-rural-tribal-maps> (last visited Mar. 25, 2020). The FCC took part in at least 28 educational events between July 2019 and March 2020.

²⁴⁰ *Expanding Flexible Use of the 3.7 to 4.2 GHz Band*, GN Docket No. 18-122, Report and Order and Order of Proposed Modification, FCC 20-22 (Mar. 3, 2020).

²⁴¹ *Id.* at para. 12.

²⁴² *Id.* at para. 7.

²⁴³ *Id.* at para. 20.

²⁴⁴ See *Auction of Flexible-Use Service Licenses in the 3.7-3.95 GHz Band for Next-Generation Wireless Services; Comment Sought on Competitive Bidding Procedures for Auction 107*, AU Docket No. 20-25, Public Notice, FCC 20-23, at para. 1 (Mar. 3, 2020).

²⁴⁵ See *Use of the 5.850-5.925 GHz Band*, ET Docket No. 19-138, Notice of Proposed Rulemaking, 34 FCC Rcd 12603 (2019).

²⁴⁶ *Id.* at 12604, para. 3.

automobile market.²⁴⁷ At the same time, growth in unlicensed services, such as Wi-Fi, have grown exponentially, and these devices rely significantly on spectrum in neighboring segments of the 5 GHz band.²⁴⁸ In the NPRM, the Commission proposed to designate the lower 45 megahertz of the 5.9 GHz band for unlicensed use, while the remaining 30 megahertz would continue to be used for transportation and safety-related communication services like the next-generation cellular vehicle to everything (CV2X) service.²⁴⁹

83. Fifth, the Commission proposed changes to the rules governing the 3.1-3.55 GHz band, which would be the first step to making spectrum in this band potentially available for advanced commercial service, including 5G.²⁵⁰ Specifically, the Commission proposed to reallocate the 3.3-3.55 GHz band and relocate incumbent non-federal operations out of the band, in order to prepare the band for possible expanded commercial wireless use.²⁵¹ The Commission took this step in furtherance of Congress's direction in the MOBILE NOW Act to identify spectrum for new mobile and fixed wireless use and, specifically, to work in consultation with NTIA to evaluate the feasibility of allowing commercial wireless services to share use of spectrum between 3.1 and 3.55 GHz.²⁵²

84. In addition, the Commission also has taken action to use below-1 GHz spectrum more efficiently. In 2017, the Commission concluded an incentive auction repurposing 70 megahertz of spectrum in the 600 MHz band from broadcast to other wireless uses, such as for mobile broadband.²⁵³ The multi-year transition period for this spectrum band is ongoing and is expected to be completed later this year.²⁵⁴ Spectrum from this auction is already being used to deliver services, including 5G, in large parts of the country.²⁵⁵ As part of its recently approved transaction, T-Mobile has committed, post-consummation, to deploying 5G service on both low-band and mid-band spectrum to 99% of Americans within six years, including covering 90% of those living in rural America within the same timeframe.²⁵⁶ Furthermore, the Commission approved certain extensions and conditions related to DISH, the contingent purchaser of the divested Boost Mobile.²⁵⁷ Specifically, DISH committed, among other things, to

²⁴⁷ *Id.* at 12604-05, para. 4.

²⁴⁸ *Id.* at 12606, para. 6.

²⁴⁹ *See generally id.*

²⁵⁰ *Facilitating Shared Use in the 3.1-3.55 GHz Band*, WT Docket No. 19-348, Notice of Proposed Rulemaking, 34 FCC Rcd 12662, 12662, para. 1 (2019).

²⁵¹ *Id.*

²⁵² *Id.*

²⁵³ *Incentive Auction Closing and Channel Reassignment et al.*, AU Docket No. 14-252 et al., Public Notice, 32 FCC Rcd 2786, 2793, para. 15 (2017).

²⁵⁴ *Id.* at 2788, 2805, paras. 1, 60.

²⁵⁵ *See* Press Release, FCC, FCC Announces Results of World's First Broadcast Incentive Auction (Apr. 13, 2017); Press Release, T-Mobile, T-Mobile's Spectrum Haul is a Game Changer for Wireless Consumers (Apr. 12, 2017), <https://www.t-mobile.com/news/tmobile-spectrum-auction-win>; Press Release, T-Mobile, T-Mobile 5G: It's On! (Dec. 2, 2019), <https://investor.t-mobile.com/news-and-events/t-mobile-us-press-releases/press-release-details/2019/T-Mobile-5G-Its-On/default.aspx>.

²⁵⁶ *Applications of T-Mobile US, Inc., and Sprint Corporation For Consent to Transfer Control of Licenses and Authorizations; Applications of American H Block Wireless L.L.C., DBSD Corporation, Gamma Acquisition L.L.C., and Manifest Wireless L.L.C. for Extension of Time*, WT Docket No. 18-197, Memorandum Opinion and Order, Declaratory Ruling, and Order of Proposed Modification, 34 FCC Rcd 10578, 10589-91, paras. 26-32 (2019).

²⁵⁷ *Id.* at 10583, para. 12.

accelerate its construction deadlines for its 600 MHz licenses and ensure that this spectrum is used to deploy 5G broadband service.²⁵⁸

85. The Commission also proposed rules to reconfigure the 900 MHz band to facilitate the development of broadband technologies and services.²⁵⁹ The proposal seeks to realign the 900 MHz band to create a broadband segment and reserve the remainder for incumbent narrowband operations.²⁶⁰

86. The Commission has similarly proposed to reallocate spectrum in the 1675-1680 MHz band for shared use between incumbent federal operations and new, non-federal flexible-use wireless operations, including for advanced telecommunications capability.²⁶¹

87. Further, the Commission continues to seek ways to enhance broadband and other innovative uses through use of unlicensed operations. For example, the Commission has proposed targeted changes to its rules to provide additional opportunities for unlicensed white space devices operating in the broadcast television bands to deliver wireless broadband services in rural areas and applications associated with the Internet of Things.²⁶² This region of the spectrum has excellent propagation characteristics that make it particularly attractive for delivering communications services over long distances, coping with variations in terrain, as well as providing coverage into and within buildings.²⁶³ The Commission's proposals are intended to spur continued growth of the white space device ecosystem, especially for providing affordable broadband service to rural and underserved communities.²⁶⁴

88. With respect to satellite services, there is significant industry interest in developing and deploying large constellations of non-geostationary (NGSO) satellites with robust capabilities to be used for global broadband connectivity. Over the last several years, the Commission has granted applications for a number of established operators and new entrants to provide broadband services using a new generation of low-Earth orbit (LEO) satellite technologies in the Ku-, Ka-, and V-band frequencies.²⁶⁵

89. In 2019, the Commission took action on several applications that promise to speed the deployment of high-speed satellite broadband to unserved and underserved portions of the United

²⁵⁸ *Id.* at 10742, 10745, paras. 369, 375, 382.

²⁵⁹ *See Review of the Commission's Rules Governing the 896-901/935-940 MHz Band*, WT Docket No. 17-200, Notice of Proposed Rulemaking, 34 FCC Rcd 1550 (2019).

²⁶⁰ *Id.* at 1553, para. 9.

²⁶¹ *Allocation and Service Rules for the 1675-1680 MHz Band*, WT Docket No. 19-116, Notice of Proposed Rulemaking and Order, 34 FCC Rcd 3552 (2019).

²⁶² *Unlicensed White Space Device Operations in the Television Bands*, ET Docket No. 20-36, Notice of Proposed Rulemaking, FCC 20-17, at para. 1 (Mar. 2, 2020).

²⁶³ *Id.*

²⁶⁴ *Id.*

²⁶⁵ *Space Exploration Holdings, LLC; Application For Approval for Orbital Deployment and Operating Authority for the SpaceX NGSO Satellite System; Application For Approval For Orbital Deployment And Operating Authority for the SpaceX NGSO Satellite System Supplement, Memorandum Opinion, Order and Authorization*, 33 FCC Rcd 3391 (2018); *see also Space Norway AS; Petition for a Declaratory Ruling Granting Access to the U.S. Market for the Arctic Satellite Broadband Mission*, Order and Declaratory Ruling, 32 FCC Rcd 9649 (2017); *Telesat Canada; Petition for Declaratory Ruling to Grant Access to the U.S. Market for Telesat's NGSO Constellation*, Order and Declaratory Ruling, 32 FCC Rcd 9663 (2017); *O3b Limited; Request for Modification of U.S. Market Access for O3b Limited's Non-Geostationary Satellite Orbit System in the Fixed-Satellite Service and in the Mobile-Satellite Service*, Order and Declaratory Ruling, 33 FCC Rcd 5508 (2018); *Space Exploration Holdings, LLC; Application for Approval for Orbital Deployment and Operating Authority for the SpaceX V-band NGSO Satellite System*, Memorandum Opinion, Order and Authorization, FCC 18-161 (Nov. 19, 2018).

States.²⁶⁶ For instance, the Commission approved two applications allowing SpaceX to modify its Ku- and Ka-band NGSO Starlink constellation to accelerate its deployment of broadband services to areas underserved or unserved by terrestrial systems.²⁶⁷ In addition, it granted a modification application that will enable Hughes Network Systems, LLC, to use additional frequencies in the Ka-band for the planned high-throughput Jupiter 3 satellite to provide broadband service to consumers.²⁶⁸

VI. SECTION 706 FINDING

90. Based on the extensive evidence above, we conclude that advanced telecommunications capability is being deployed to all Americans in a reasonable and timely fashion. The available data clearly demonstrate progress in the deployment of “advanced telecommunications capability” from 2017 to 2018. For example, the number of Americans without access to fixed terrestrial broadband deployment decreased by 14% in 2018, with decreases in urban, rural, and Tribal areas.²⁶⁹ More Americans—94.9%—have access to mobile LTE with median speeds of 10/3 Mbps, up from 89.0% in 2017.²⁷⁰ Indeed, there were deployment increases in both fixed and mobile services, both apart and when combined.²⁷¹ We also are encouraged by the significant year-over-year increases in fixed terrestrial services at every speed examined in this Report—10/1 Mbps mobile broadband, and 25/3 Mbps, 50/5 Mbps, 100/10 Mbps, and 250/25 Mbps fixed broadband.²⁷² Moreover, some of the Commission’s more recent actions undertaken to speed broadband deployment likely are not yet fully reflected by the data used in our analysis here, as those data only provide the extent of U.S. broadband deployment through December 2018.

91. Indeed, recent broadband investment throughout the country demonstrates that the Commission’s actions to date to encourage and stimulate broadband deployment and innovation are working as intended. U.S. broadband providers invested approximately \$80 billion in network infrastructure in 2018, up more than \$3.1 billion from 2017.²⁷³ Broadband providers, both small and large, built and upgraded networks across the country, with fiber deployment in the United States now passing 46.5 million unique homes, a 16% increase in homes passed by fiber since 2018.²⁷⁴ In 2019

²⁶⁶ *Space Exploration Holdings, LLC; Request for Modification of the Authorization for the SpaceX NGSO Satellite System*, Order and Authorization, 34 FCC Rcd 2526 (IB 2019); *Space Exploration Holdings, LLC, Request for Modification of the Authorization for the SpaceX NGSO Satellite System*, Order and Authorization, 34 FCC Rcd 12307, 12307, para. 1 (IB 2019) (*SpaceX NGSO Authorization*). (SpaceX has been conducting launches of Starlink satellites since May 2019). *Space Exploration Holdings, Starlink Mission* (May 24, 2019), <https://www.spacex.com/news/2019/05/24/starlink-mission>; see also *Space Exploration Holdings, LLC, Starlink Mission* (Feb. 17, 2020), <https://www.spacex.com/news/2020/02/17/starlink-mission>.

²⁶⁷ *SpaceX NGSO Authorization*, 34 FCC Rcd 12307.

²⁶⁸ See Satellite Policy Branch Information, Actions Taken, Public Notice, Report No. SAT-01396 (IB Sat. Div. June 14, 2019); see also *Hughes Network Systems, LLC, Request for Modification of the Authorization to Launch and Operate EchoStar XXIV*, IBFS File No. SAT-MOD-20190212-00011 (granted June 13, 2019). Similarly, the Commission authorized a number of gateway earth stations necessary to operate satellite constellations that offer or will offer broadband services consumers. See Satellite Communications Services Information, Actions Taken, Public Notice, SES-02217 (IB Sat. Div., Nov. 13, 2019); Satellite Communications Services Information, Actions Taken, Public Notice, Report No. SES-02134 (IB Sat. Div., Feb. 6, 2019).

²⁶⁹ See *supra* Fig. 1.

²⁷⁰ See *supra* Fig. 2b.

²⁷¹ See *supra* Figs. 1, 2b, 3a, and 3b.

²⁷² See *supra* Fig. 4.

²⁷³ See generally Patrick Brogan, Vice President for Industry Analysis, USTelecom, U.S. Broadband Investment Continued upswing in 2018 (2019), <https://www.ustelecom.org/wp-content/uploads/2019/07/USTelecom-Research-Brief-Capex-2018-7-31-19.pdf>.

²⁷⁴ See Fiber Broadband Association Dec. 16, 2019 *Ex Parte* Letter, at 1 n.1.

alone, fiber broadband networks became available to roughly 6.5 million additional unique homes, the largest one-year increase ever, with smaller providers accounting for 25% of these new fiber connections.²⁷⁵ AT&T, T-Mobile, Sprint, and Verizon are also rapidly expanding their 5G deployment, with 5G networks in aggregate now covering more than 200 million consumers across the country, especially in urban areas, with more live launches planned for 2020.²⁷⁶

92. Both commenters and industry reports indicate that our policy efforts are making a difference. For example, recent Fiber Broadband Association research shows that the industry is currently on pace to deploy all-fiber networks to about 50% of U.S. households by 2025, in part due to our efforts to spur deployment.²⁷⁷ Commenters also predict that the positive trends in deployment of advanced telecommunications capability reported in recent years will continue, due in part to Commission policies that promote investment.²⁷⁸

93. We disagree with commenters that contend that the section 706 requirements have not been met.²⁷⁹ In particular, we reject the arguments of commenters that urge us to conduct our section 706

²⁷⁵ *Id.*

²⁷⁶ See AT&T, AT&T 5G Now Live for Consumers in 10 Markets (Dec. 13, 2019), https://about.att.com/story/2019/5g_launch.html (announcing live launch of AT&T 5G to consumers and businesses in the Birmingham, AL; Indianapolis; Los Angeles; Milwaukee; Pittsburgh; Providence, RI; Rochester, NY; San Diego, San Francisco, and San Jose, CA market areas, and plans to expand service availability to other markets soon as it works toward offering nationwide coverage in the first half of 2020); T-Mobile, T-Mobile 5G: It's On! (Dec. 2, 2019), <https://investor.t-mobile.com/news-and-events/t-mobile-us-press-releases/press-release-details/2019/T-Mobile-5G-Its-On/default.aspx>; Sprint, Sprint 5g Overview (Nov. 1, 2019), <https://newsroom.sprint.com/sprint-5g-overview-1-2.htm> (touting Sprint 5G availability in parts of 9 cities – Atlanta, Chicago, Dallas-Ft. Worth, Houston, Kansas City, Los Angeles, New York City, Phoenix, and Washington, DC – as well as Sprint partnerships with multiple U.S. cities on Smart City applications leveraging Sprint's 5G and IoT offerings); Verizon, When Will Verizon Have 5G? (Dec. 5, 2019), <https://www.verizon.com/about/our-company/5g/when-will-verizon-have-5g> (discussing current availability of Verizon's 5G ultra-wideband service in parts of select cities, and plans for further rollouts in 2020).

²⁷⁷ Press Release, Fiber Broadband Association, New Study Finds All-Fiber Deployments to 90% of Households Achievable in Next Decade (Sept. 10, 2019), <https://www.fiberbroadband.org/blog/new-study-finds-all-fiber-deployments-to-90-of-households-achievable-in-next-decade> (“These accelerated all-fiber builds are driven by increasing consumer demand for higher performance broadband, . . . and government efforts to lower barriers to deployment costs and provide targeted subsidies.”).

²⁷⁸ See, e.g., Internet Innovation Alliance Comments at 6-7 (“In 2019, as they have for years, broadband providers are constantly increasing speeds in response to competitive pressures and as a result of new deployments thanks to policies that promote investment . . . We expect this positive trend to continue and indeed accelerate as the Nation transitions to 5G wireless broadband . . .”); *id.* at 7-8 (“Thanks to policies that reward investment and promote innovation and the pressures of a competitive broadband marketplace, we expect that the 2020 Broadband Deployment Report and those in future years will continue to show a story of progress in the important task of ensuring that all Americans have access to fast, reliable broadband, no matter how they access the broadband internet.”); ITTA Comments at 10 (“[T]he Commission has ample grounds to once again find that its ‘policymaking efforts . . . are promoting broadband deployment, and that [Internet Service Providers] are making strong progress in deploying advanced telecommunications capability to more and more Americans.”).

²⁷⁹ See, e.g., Benton Foundation Comments at 2 (coupled with continued reliance on Form 477, Commission’s “progress-based approach” misrepresents the true reach of broadband in the U.S.); INCOMPAS Comments at 7 n.11 (“[T]he Commission cannot retain a baseline benchmark for fixed service that is adequate for purposes of finding that broadband is being deployed in a timely and reasonable manner, but is by no means ‘advanced’ given our current understanding of broadband services available to the typical consumer.”); CWA Reply Comments at 13 (“The Commission should find that advanced telecommunications services are not being deployed in a reasonable and timely fashion, . . . and condition the 2020 Broadband Deployment Report with the understanding that the underlying Form 477 data is flawed.”); Public Knowledge et al. Reply Comments at 9-10 (“The Commission’s two prior Broadband Deployment Reports departed significantly from nearly a decade of precedent since the Broadband (continued....)”).

assessment based only on the number of Americans with access to broadband instead of measuring year-over-year progress. As the Commission has previously stated, the statute requires that we determine whether advanced telecommunications capability “*is being deployed* to all Americans”—not whether it has already been deployed to all Americans—and reading section 706(b) to require universal availability as a prerequisite for a positive finding would disregard the statute’s “reasonable and timely” language.²⁸⁰ With respect to those that contend that the inaccuracies inherent in our current data render it impossible for us to come to any conclusion under section 706, we reiterate both our recognition of the problems with the Form 477 data, and that the Commission’s efforts to improve our data collection are already underway.²⁸¹ In the interim, however, we are still obligated to conduct our annual section 706 inquiry, and, it remains the case that, despite its deficiencies, Form 477 data remains the most comprehensive, reliable data available to us to meet our statutory obligation.²⁸² The Form 477 data also provides a consistent means to measure progress in deployment from year-to-year and over the course of several years. Our policymaking efforts over the last few years are promoting broadband deployment,²⁸³ and we are confident that even a perfectly designed and implemented data collection, if such a thing were possible, would still show that ISPs are making strong progress in deploying advanced telecommunications capability to more and more Americans.²⁸⁴ The across-the-board progress demonstrated by the deployment data is consistent with the evidence in the record showing substantial levels of network investment in 2018.²⁸⁵ Thus, we find that the data we do have is sufficiently indicative

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Data Improvement Act by concluding that broadband is being deployed to the U.S. in a timely and reasonable manner. . . . [C]ongressional reports show that it was Congress’ intent to look at current broadband deployment rather than come to its conclusion based on the progress from the prior year.”).

²⁸⁰ See *2019 Report*, 34 FCC Rcd at 3859-60, para. 8, 3898-99, para. 78; *2018 Report*, 33 FCC Rcd at 1663-64, paras. 10-13; see also ADTRAN Reply Comments at 2 (“Public Knowledge et al. contends that the Commission should abandon its progress-based approach and revert back to a more simplistic assessment of whether or not all Americans have access to advanced telecommunications capabilities. . . . Their assertion is based on a misreading of the Senate Report for the Broadband Data Improvement Act, which was addressing the quality of the data collected, not how to interpret Section 706. The Commission correctly interprets the Section 706 language . . . as supporting a progress-based standard.”).

²⁸¹ See *supra* Section IV.A; *2019 Report*, 34 FCC Rcd at 3868, para. 24; *Establishing the Digital Opportunity Data Collection, Modernizing the FCC Form 477 Data Program*, WC Docket No. 19-195, Docket No. 11-10, Report and Order and Second Further Notice of Proposed Rulemaking, 34 FCC Rcd 7505 (2019).

²⁸² See, e.g., *2019 Report*, 34 FCC Rcd at 3868-69, paras. 24-26; ADTRAN Comments at 9 (“ADTRAN recognizes that the current Form 477 data has flaws, and the Commission is in the process of improving that broadband deployment data. Notwithstanding the potential for Form 477 to overstate broadband deployment, it remains the most comprehensive data available.”); Colville Confederated Tribes Comments at 6 (“CCT recognizes that the FCC form 477 data is the most reliable data available, but it is far from comprehensive. The fact of the matter is there are no other options available to use as of now . . .”); Next Century Cities Comments at 6 (“The Commission is aware that its reliance on the 477 data collection overstates the number of households with broadband coverage We support the Commission’s effort to establish a more accurate data collection via the Digital Opportunity Data Collection.”); UST Comments at 12 (“USTelecom agrees with the Commission that Form 477 deployment data for fixed technologies is currently the most reliable and comprehensive dataset with which to assess availability of fixed services.”).

²⁸³ See *supra* Section V.

²⁸⁴ As NCTA notes, “the explosion of new video streaming services is premised on the widespread deployment of networks that are capable of handling the streaming demands of millions of American households. If deployment were not occurring in a reasonable and timely fashion, there would be no streaming wars.” NCTA Reply Comments at 3.

²⁸⁵ Moreover, there is no documented evidence in the record suggesting that the progress in deployment shown in the data is a function of data deficiencies.

to give us reasonable confidence that advanced telecommunications capability is being deployed in a reasonable and timely manner. These circumstances warrant a positive finding.

94. Once again, we recognize that, despite our positive finding today, our work to close the digital divide is not complete. For instance, the 2018 data demonstrate that 5.6% of Americans, nearly 18.3 million people, lack access to fixed terrestrial advanced telecommunications capability.²⁸⁶ While deployment is improving in all geographic areas, we recognize that there is still significant work to do to encourage deployment to rural areas, where 22.3% of Americans lack access, and Tribal lands, where 27.7% of Americans lack access.²⁸⁷ We agree with the Free State Foundation that, notwithstanding our finding that advanced telecommunications capability is being deployed to all Americans in a reasonable and timely fashion, “the imperative to proactively identify and remove regulatory barriers to broadband infrastructure investment remains.”²⁸⁸ Thus, the further deployment of advanced telecommunications capability to close the digital divide will remain a top priority of the Commission as we continue our efforts to deliver the benefits of broadband to all Americans.

VII. ORDERING CLAUSE

95. Accordingly, IT IS ORDERED that, pursuant to section 706 of the Telecommunications Act of 1996, as amended, 47 U.S.C. § 1302, this Report IS ADOPTED.

FEDERAL COMMUNICATIONS COMMISSION

Marlene H. Dortch
Secretary

²⁸⁶ *See supra* Fig. 1.

²⁸⁷ *Id.*

²⁸⁸ Free State Foundation Comments at 10.

APPENDIX 1

**Deployment (Millions) of Fixed Terrestrial 25/3 Mbps; Mobile LTE With a
Minimum Advertised Speed of 5/1 Mbps; and Mobile LTE With a Median Speed of 10/3 Mbps
by State, District of Columbia, and U.S. Territory
(As of December 31, 2018)¹**

	Pop. Evaluated	Fixed Terrestrial 25/3 Mbps		Mobile LTE 5/1 Mbps		Pop. Evaluated	Mobile LTE 10/3 Mbps	
		Pop.	% of Pop.	Pop.	% of Pop.		Pop.	% of Pop.
United States	327.167	308.913	94.4%	326.727	99.9%	304.288	288.809	94.9%
Rural Areas	64.504	50.099	77.7%	64.097	99.4%	48.142	40.103	83.3%
Urban Areas	262.663	258.814	98.5%	262.630	100.0%	256.145	248.706	97.1%
Alabama	4.888	4.266	87.3%	4.886	100.0%	4.208	3.918	93.1%
Rural Areas	2.017	1.456	72.2%	2.015	99.9%	1.476	1.294	87.7%
Urban Areas	2.871	2.811	97.9%	2.871	100.0%	2.732	2.623	96.0%
Alaska	0.737	0.618	83.8%	0.669	90.7%	0.655	0.430	65.7%
Rural Areas	0.263	0.157	59.8%	0.203	77.0%	0.214	0.077	36.1%
Urban Areas	0.474	0.461	97.2%	0.466	98.3%	0.440	0.353	80.1%
Arizona	7.172	6.363	88.7%	7.146	99.6%	7.055	6.788	96.2%
Rural Areas	0.887	0.416	46.9%	0.862	97.1%	0.825	0.700	84.8%
Urban Areas	6.284	5.948	94.6%	6.284	100.0%	6.229	6.088	97.7%
Arkansas	3.014	2.372	78.7%	3.013	100.0%	2.272	1.950	85.8%
Rural Areas	1.339	0.791	59.1%	1.338	99.9%	0.805	0.632	78.5%
Urban Areas	1.675	1.582	94.4%	1.675	100.0%	1.468	1.319	89.9%
California	39.557	38.818	98.1%	39.533	99.9%	39.454	38.439	97.4%
Rural Areas	2.381	1.893	79.5%	2.359	99.1%	2.314	2.007	86.7%
Urban Areas	37.176	36.925	99.3%	37.174	100.0%	37.140	36.432	98.1%
Colorado	5.695	5.405	94.9%	5.689	99.9%	5.235	5.188	99.1%
Rural Areas	0.896	0.684	76.3%	0.890	99.3%	0.605	0.573	94.8%
Urban Areas	4.799	4.721	98.4%	4.799	100.0%	4.630	4.615	99.7%
Connecticut	3.573	3.544	99.2%	3.572	100.0%	3.573	3.572	100.0%
Rural Areas	0.433	0.431	99.5%	0.433	100.0%	0.433	0.433	100.0%
Urban Areas	3.139	3.112	99.1%	3.139	100.0%	3.139	3.139	100.0%
Delaware	0.967	0.946	97.8%	0.967	100.0%	0.967	0.967	100.0%
Rural Areas	0.173	0.165	95.7%	0.173	100.0%	0.173	0.173	100.0%
Urban Areas	0.795	0.780	98.2%	0.794	100.0%	0.795	0.794	100.0%
District of Columbia	0.702	0.689	98.1%	0.702	100.0%	0.702	0.702	100.0%
Florida	21.299	20.565	96.6%	21.290	100.0%	20.975	20.239	96.5%
Rural Areas	2.107	1.693	80.3%	2.105	99.9%	1.871	1.521	81.3%
Urban Areas	19.191	18.872	98.3%	19.185	100.0%	19.105	18.718	98.0%
Georgia	10.519	9.844	93.6%	10.518	100.0%	9.076	8.655	95.4%
Rural Areas	2.589	2.078	80.3%	2.588	100.0%	1.558	1.281	82.3%
Urban Areas	7.931	7.766	97.9%	7.931	100.0%	7.518	7.374	98.1%
Hawaii	1.420	1.372	96.6%	1.418	99.8%	1.420	1.418	99.8%

¹ Because the Commission does not have Ookla speed data for the U.S. Territories, no data is available regarding the median speed tests of at least 10/3 Mbps in such locations, which have been denoted with an asterisk (*).

	Pop. Evaluated	Fixed Terrestrial 25/3 Mbps		Mobile LTE 5/1 Mbps		Pop. Evaluated	Mobile LTE 10/3 Mbps	
		Pop.	% of Pop.	Pop.	% of Pop.		Pop.	% of Pop.
Rural Areas	0.133	0.102	76.6%	0.132	99.1%	0.133	0.132	99.1%
Urban Areas	1.288	1.270	98.6%	1.286	99.9%	1.288	1.286	99.9%
Idaho	1.754	1.488	84.9%	1.743	99.4%	1.421	1.095	77.0%
Rural Areas	0.551	0.320	58.1%	0.540	98.0%	0.338	0.241	71.3%
Urban Areas	1.203	1.168	97.1%	1.203	100.0%	1.084	0.854	78.8%
Illinois	12.741	12.143	95.3%	12.741	100.0%	11.966	11.732	98.0%
Rural Areas	1.470	0.993	67.6%	1.470	100.0%	0.972	0.859	88.4%
Urban Areas	11.271	11.149	98.9%	11.271	100.0%	10.995	10.873	98.9%
Indiana	6.692	6.295	94.1%	6.692	100.0%	5.987	5.778	96.5%
Rural Areas	1.849	1.484	80.3%	1.849	100.0%	1.346	1.228	91.2%
Urban Areas	4.842	4.811	99.4%	4.842	100.0%	4.641	4.550	98.0%
Iowa	3.156	2.942	93.2%	3.153	99.9%	2.136	1.873	87.7%
Rural Areas	1.142	0.961	84.2%	1.139	99.8%	0.448	0.347	77.4%
Urban Areas	2.014	1.981	98.3%	2.014	100.0%	1.688	1.526	90.4%
Kansas	2.911	2.692	92.5%	2.911	100.0%	2.294	2.207	96.2%
Rural Areas	0.755	0.582	77.0%	0.755	100.0%	0.345	0.310	89.9%
Urban Areas	2.157	2.110	97.8%	2.157	100.0%	1.949	1.897	97.3%
Kentucky	4.468	4.171	93.3%	4.438	99.3%	3.422	2.976	87.0%
Rural Areas	1.837	1.559	84.9%	1.806	98.4%	0.956	0.705	73.7%
Urban Areas	2.632	2.612	99.2%	2.631	100.0%	2.466	2.271	92.1%
Louisiana	4.660	4.053	87.0%	4.660	100.0%	4.225	3.982	94.2%
Rural Areas	1.253	0.778	62.1%	1.253	100.0%	0.941	0.808	85.9%
Urban Areas	3.407	3.275	96.1%	3.407	100.0%	3.284	3.174	96.6%
Maine	1.338	1.276	95.4%	1.327	99.2%	1.227	1.115	90.9%
Rural Areas	0.831	0.771	92.8%	0.820	98.7%	0.727	0.632	86.9%
Urban Areas	0.507	0.505	99.5%	0.507	99.9%	0.500	0.483	96.6%
Maryland	6.043	5.887	97.4%	6.041	100.0%	5.903	5.864	99.3%
Rural Areas	0.808	0.750	92.9%	0.807	100.0%	0.713	0.692	97.1%
Urban Areas	5.235	5.137	98.1%	5.233	100.0%	5.191	5.172	99.6%
Massachusetts	6.902	6.759	97.9%	6.899	100.0%	6.891	6.888	100.0%
Rural Areas	0.554	0.513	92.5%	0.554	99.9%	0.552	0.551	99.9%
Urban Areas	6.348	6.247	98.4%	6.346	100.0%	6.339	6.337	100.0%
Michigan	9.996	9.467	94.7%	9.993	100.0%	9.509	8.855	93.1%
Rural Areas	2.566	2.109	82.2%	2.565	99.9%	2.228	1.748	78.5%
Urban Areas	7.429	7.357	99.0%	7.428	100.0%	7.281	7.108	97.6%
Minnesota	5.611	5.396	96.2%	5.610	100.0%	4.938	4.679	94.7%
Rural Areas	1.498	1.321	88.1%	1.497	99.9%	1.028	0.854	83.0%
Urban Areas	4.112	4.075	99.1%	4.112	100.0%	3.910	3.825	97.8%
Mississippi	2.986	2.353	78.8%	2.986	100.0%	1.984	1.196	60.3%
Rural Areas	1.517	0.928	61.1%	1.517	100.0%	0.753	0.396	52.6%
Urban Areas	1.469	1.425	97.0%	1.469	100.0%	1.231	0.800	65.0%
Missouri	6.126	5.528	90.2%	6.124	100.0%	5.127	4.694	91.6%
Rural Areas	1.837	1.282	69.8%	1.835	99.9%	1.091	0.869	79.6%
Urban Areas	4.290	4.246	99.0%	4.290	100.0%	4.035	3.824	94.8%
Montana	1.062	0.925	87.1%	1.045	98.4%	0.701	0.684	97.6%
Rural Areas	0.488	0.362	74.1%	0.474	96.9%	0.248	0.233	94.0%

	Pop. Evaluated	Fixed Terrestrial 25/3 Mbps		Mobile LTE 5/1 Mbps		Pop. Evaluated	Mobile LTE 10/3 Mbps	
		Pop.	% of Pop.	Pop.	% of Pop.		Pop.	% of Pop.
Urban Areas	0.574	0.563	98.1%	0.572	99.6%	0.454	0.451	99.5%
Nebraska	1.929	1.726	89.5%	1.929	100.0%	1.311	1.275	97.3%
Rural Areas	0.519	0.339	65.2%	0.519	99.9%	0.147	0.136	92.4%
Urban Areas	1.410	1.387	98.4%	1.410	100.0%	1.164	1.140	97.9%
Nevada	3.034	2.853	94.0%	3.030	99.9%	2.956	2.845	96.2%
Rural Areas	0.216	0.107	49.4%	0.211	98.0%	0.174	0.145	83.3%
Urban Areas	2.819	2.746	97.4%	2.819	100.0%	2.782	2.700	97.0%
New Hampshire	1.356	1.302	96.0%	1.356	99.9%	1.282	1.156	90.2%
Rural Areas	0.540	0.497	92.1%	0.539	99.9%	0.491	0.396	80.7%
Urban Areas	0.817	0.805	98.6%	0.816	100.0%	0.791	0.760	96.0%
New Jersey	8.909	8.842	99.2%	8.907	100.0%	8.909	8.907	100.0%
Rural Areas	0.465	0.456	98.2%	0.465	100.0%	0.465	0.465	100.0%
Urban Areas	8.444	8.386	99.3%	8.443	100.0%	8.444	8.443	100.0%
New Mexico	2.095	1.777	84.8%	2.089	99.7%	1.863	1.467	78.7%
Rural Areas	0.507	0.254	50.1%	0.501	98.7%	0.380	0.210	55.4%
Urban Areas	1.588	1.523	95.9%	1.588	100.0%	1.483	1.256	84.7%
New York	19.542	19.317	98.8%	19.535	100.0%	19.080	18.856	98.8%
Rural Areas	2.350	2.131	90.7%	2.343	99.7%	2.010	1.857	92.4%
Urban Areas	17.193	17.186	100.0%	17.192	100.0%	17.070	16.999	99.6%
North Carolina	10.383	9.917	95.5%	10.359	99.8%	9.675	8.902	92.0%
Rural Areas	3.458	3.002	86.8%	3.433	99.3%	2.867	2.407	83.9%
Urban Areas	6.926	6.915	99.8%	6.925	100.0%	6.808	6.495	95.4%
North Dakota	0.760	0.714	94.0%	0.760	99.9%	0.465	0.464	99.9%
Rural Areas	0.341	0.305	89.5%	0.341	99.8%	0.127	0.126	99.6%
Urban Areas	0.419	0.409	97.7%	0.419	100.0%	0.338	0.338	100.0%
Ohio	11.689	11.144	95.3%	11.685	100.0%	11.180	11.077	99.1%
Rural Areas	2.586	2.100	81.2%	2.583	99.9%	2.213	2.148	97.1%
Urban Areas	9.103	9.044	99.4%	9.102	100.0%	8.967	8.929	99.6%
Oklahoma	3.943	3.305	83.8%	3.939	99.9%	3.547	2.745	77.4%
Rural Areas	1.355	0.827	61.0%	1.351	99.7%	1.059	0.634	59.9%
Urban Areas	2.588	2.478	95.8%	2.588	100.0%	2.488	2.110	84.8%
Oregon	4.191	3.927	93.7%	4.172	99.6%	4.005	3.721	92.9%
Rural Areas	0.856	0.637	74.4%	0.838	97.9%	0.753	0.625	83.0%
Urban Areas	3.335	3.290	98.7%	3.334	100.0%	3.251	3.096	95.2%
Pennsylvania	12.807	12.213	95.4%	12.802	100.0%	12.206	12.094	99.1%
Rural Areas	2.733	2.317	84.8%	2.728	99.8%	2.308	2.218	96.1%
Urban Areas	10.074	9.896	98.2%	10.074	100.0%	9.899	9.876	99.8%
Rhode Island	1.057	1.041	98.5%	1.057	100.0%	1.057	1.057	100.0%
Rural Areas	0.098	0.096	97.6%	0.098	100.0%	0.098	0.098	100.0%
Urban Areas	0.959	0.945	98.6%	0.959	100.0%	0.959	0.959	100.0%
South Carolina	5.084	4.558	89.7%	5.084	100.0%	4.589	4.589	100.0%
Rural Areas	1.730	1.296	75.0%	1.729	100.0%	1.359	1.358	100.0%
Urban Areas	3.354	3.262	97.2%	3.354	100.0%	3.231	3.231	100.0%
South Dakota	0.882	0.808	91.6%	0.881	99.9%	0.399	0.398	99.8%
Rural Areas	0.396	0.326	82.3%	0.396	99.8%	0.096	0.095	99.0%
Urban Areas	0.485	0.482	99.3%	0.485	100.0%	0.303	0.303	100.0%

	Pop. Evaluated	Fixed Terrestrial 25/3 Mbps		Mobile LTE 5/1 Mbps		Pop. Evaluated	Mobile LTE 10/3 Mbps	
		Pop.	% of Pop.	Pop.	% of Pop.		Pop.	% of Pop.
Tennessee	6.770	6.243	92.2%	6.755	99.8%	5.812	5.681	97.7%
Rural Areas	2.290	1.825	79.7%	2.275	99.4%	1.515	1.423	93.9%
Urban Areas	4.480	4.417	98.6%	4.480	100.0%	4.297	4.258	99.1%
Texas	28.701	27.010	94.1%	28.698	100.0%	27.593	24.761	89.7%
Rural Areas	4.799	3.612	75.3%	4.797	99.9%	4.102	2.795	68.1%
Urban Areas	23.902	23.398	97.9%	23.902	100.0%	23.490	21.966	93.5%
Utah	3.161	2.997	94.8%	3.158	99.9%	2.994	2.958	98.8%
Rural Areas	0.403	0.274	67.9%	0.400	99.3%	0.296	0.280	94.7%
Urban Areas	2.758	2.723	98.7%	2.758	100.0%	2.698	2.678	99.3%
Vermont	0.626	0.577	92.2%	0.626	99.9%	0.380	0.379	99.9%
Rural Areas	0.385	0.339	88.1%	0.384	99.9%	0.184	0.184	99.7%
Urban Areas	0.241	0.238	98.7%	0.241	100.0%	0.196	0.196	100.0%
Virginia	8.523	7.884	92.5%	8.505	99.8%	7.576	6.952	91.8%
Rural Areas	2.097	1.591	75.9%	2.079	99.1%	1.398	0.922	66.0%
Urban Areas	6.427	6.293	97.9%	6.426	100.0%	6.179	6.029	97.6%
Washington	7.535	7.187	95.4%	7.515	99.7%	7.417	7.074	95.4%
Rural Areas	1.311	1.040	79.3%	1.292	98.6%	1.234	1.076	87.3%
Urban Areas	6.225	6.147	98.8%	6.223	100.0%	6.184	5.997	97.0%
West Virginia	1.806	1.489	82.4%	1.738	96.2%	1.090	0.904	83.0%
Rural Areas	0.921	0.647	70.3%	0.853	92.6%	0.404	0.297	73.6%
Urban Areas	0.885	0.842	95.1%	0.884	99.9%	0.686	0.607	88.5%
Wisconsin	5.813	5.403	92.9%	5.808	99.9%	5.244	4.577	87.3%
Rural Areas	1.755	1.357	77.3%	1.750	99.7%	1.290	0.891	69.0%
Urban Areas	4.058	4.047	99.7%	4.058	100.0%	3.954	3.686	93.2%
Wyoming	0.578	0.501	86.8%	0.573	99.1%	0.333	0.084	25.3%
Rural Areas	0.219	0.145	65.9%	0.214	97.6%	0.083	0.021	24.7%
Urban Areas	0.358	0.357	99.5%	0.358	100.0%	0.250	0.064	25.5%
American Samoa	0.051	0.051	100.0%	0.000	0.0%	*	*	*
Rural Areas	0.008	0.008	99.8%	0.000	0.0%	*	*	*
Urban Areas	0.043	0.043	100.0%	0.000	0.0%	*	*	*
Guam	0.168	0.110	65.5%	0.168	100.0%	*	*	*
Rural Areas	0.011	0.004	34.7%	0.011	99.8%	*	*	*
Urban Areas	0.157	0.106	67.7%	0.157	100.0%	*	*	*
Northern Mariana Islands	0.052	0.046	88.6%	0.052	99.7%	*	*	*
Rural Areas	0.006	0.003	48.4%	0.006	97.6%	*	*	*
Urban Areas	0.046	0.043	93.6%	0.046	100.0%	*	*	*
Puerto Rico	3.195	2.852	89.3%	3.193	99.9%	*	*	*
Rural Areas	0.207	0.134	64.8%	0.206	99.6%	*	*	*
Urban Areas	2.988	2.718	91.0%	2.987	100.0%	*	*	*
U.S. Virgin Islands	0.107	0.107	100.0%	0.105	98.0%	*	*	*
Rural Areas	0.007	0.007	100.0%	0.006	94.0%	*	*	*
Urban Areas	0.100	0.100	100.0%	0.099	98.3%	*	*	*

APPENDIX 2

**Deployment (Millions) of Fixed Terrestrial 25/3 Mbps and Mobile LTE With a Minimum
Advertised Speed of 5/1 Mbps; and Fixed Terrestrial 25/3 Mbps and Mobile LTE With a Median
Speed of 10/3 Mbps by State, District of Columbia, and U.S. Territory
(As of December 31, 2018)¹**

	Pop. Evaluated	Fixed 25/3 Mbps and Mobile LTE 5/1 Mbps		Pop. Evaluated	Fixed 25/3 Mbps and Mobile LTE 10/3 Mbps	
		Pop.	% of Pop.		Pop.	% of Pop.
United States	327.167	308.722	94.4%	304.288	279.162	91.7%
Rural Areas	64.504	49.932	77.4%	48.142	33.595	69.8%
Urban Areas	262.663	258.790	98.5%	256.145	245.568	95.9%
Alabama	4.888	4.266	87.3%	4.208	3.629	86.2%
Rural Areas	2.017	1.455	72.2%	1.476	1.049	71.0%
Urban Areas	2.871	2.811	97.9%	2.732	2.580	94.5%
Alaska	0.737	0.614	83.4%	0.655	0.419	64.0%
Rural Areas	0.263	0.154	58.4%	0.214	0.067	31.1%
Urban Areas	0.474	0.461	97.2%	0.440	0.352	80.0%
Arizona	7.172	6.363	88.7%	7.055	6.164	87.4%
Rural Areas	0.887	0.415	46.8%	0.825	0.373	45.2%
Urban Areas	6.284	5.948	94.6%	6.229	5.791	93.0%
Arkansas	3.014	2.372	78.7%	2.272	1.769	77.8%
Rural Areas	1.339	0.791	59.1%	0.805	0.482	60.0%
Urban Areas	1.675	1.582	94.4%	1.468	1.286	87.6%
California	39.557	38.810	98.1%	39.454	37.819	95.9%
Rural Areas	2.381	1.887	79.2%	2.314	1.628	70.3%
Urban Areas	37.176	36.924	99.3%	37.140	36.191	97.4%
Colorado	5.695	5.403	94.9%	5.235	4.981	95.2%
Rural Areas	0.896	0.682	76.1%	0.605	0.440	72.8%
Urban Areas	4.799	4.721	98.4%	4.630	4.541	98.1%
Connecticut	3.573	3.543	99.2%	3.573	3.543	99.2%
Rural Areas	0.433	0.431	99.5%	0.433	0.431	99.5%
Urban Areas	3.139	3.112	99.1%	3.139	3.112	99.1%
Delaware	0.967	0.945	97.7%	0.967	0.945	97.7%
Rural Areas	0.173	0.165	95.7%	0.173	0.165	95.7%
Urban Areas	0.795	0.780	98.2%	0.795	0.780	98.2%
District of Columbia	0.702	0.689	98.1%	0.702	0.689	98.1%
Florida	21.299	20.558	96.5%	20.975	19.753	94.2%
Rural Areas	2.107	1.692	80.3%	1.871	1.329	71.0%
Urban Areas	19.191	18.865	98.3%	19.105	18.424	96.4%
Georgia	10.519	9.843	93.6%	9.076	8.416	92.7%
Rural Areas	2.589	2.077	80.2%	1.558	1.162	74.6%
Urban Areas	7.931	7.766	97.9%	7.518	7.254	96.5%
Hawaii	1.420	1.370	96.5%	1.420	1.370	96.5%
Rural Areas	0.133	0.101	76.3%	0.133	0.101	76.4%

¹ Because the Commission does not have Ookla speed data for the U.S. Territories, no data is available regarding the median speed tests of at least 10/3 Mbps in such locations, which have been denoted with an asterisk (*).

	Pop. Evaluated	Fixed 25/3 Mbps and Mobile LTE 5/1 Mbps		Pop. Evaluated	Fixed 25/3 Mbps and Mobile LTE 10/3 Mbps	
		Pop.	% of Pop.		Pop.	% of Pop.
Urban Areas	1.288	1.269	98.5%	1.288	1.269	98.5%
Idaho	1.754	1.486	84.7%	1.421	0.990	69.6%
Rural Areas	0.551	0.317	57.7%	0.338	0.148	43.9%
Urban Areas	1.203	1.168	97.1%	1.084	0.841	77.6%
Illinois	12.741	12.143	95.3%	11.966	11.422	95.5%
Rural Areas	1.470	0.993	67.6%	0.972	0.650	66.9%
Urban Areas	11.271	11.149	98.9%	10.995	10.772	98.0%
Indiana	6.692	6.295	94.1%	5.987	5.546	92.6%
Rural Areas	1.849	1.484	80.3%	1.346	1.026	76.2%
Urban Areas	4.842	4.811	99.4%	4.641	4.520	97.4%
Iowa	3.156	2.941	93.2%	2.136	1.804	84.4%
Rural Areas	1.142	0.960	84.1%	0.448	0.303	67.5%
Urban Areas	2.014	1.981	98.3%	1.688	1.501	88.9%
Kansas	2.911	2.692	92.5%	2.294	2.110	92.0%
Rural Areas	0.755	0.582	77.0%	0.345	0.240	69.6%
Urban Areas	2.157	2.110	97.8%	1.949	1.871	96.0%
Kentucky	4.468	4.147	92.8%	3.422	2.903	84.8%
Rural Areas	1.837	1.535	83.6%	0.956	0.638	66.7%
Urban Areas	2.632	2.611	99.2%	2.466	2.265	91.8%
Louisiana	4.660	4.053	87.0%	4.225	3.675	87.0%
Rural Areas	1.253	0.778	62.1%	0.941	0.612	65.0%
Urban Areas	3.407	3.275	96.1%	3.284	3.063	93.3%
Maine	1.338	1.268	94.7%	1.227	1.083	88.2%
Rural Areas	0.831	0.763	91.8%	0.727	0.602	82.8%
Urban Areas	0.507	0.505	99.4%	0.500	0.481	96.1%
Maryland	6.043	5.885	97.4%	5.903	5.729	97.0%
Rural Areas	0.808	0.750	92.9%	0.713	0.654	91.8%
Urban Areas	5.235	5.135	98.1%	5.191	5.075	97.8%
Massachusetts	6.902	6.757	97.9%	6.891	6.746	97.9%
Rural Areas	0.554	0.512	92.4%	0.552	0.510	92.4%
Urban Areas	6.348	6.245	98.4%	6.339	6.236	98.4%
Michigan	9.996	9.465	94.7%	9.509	8.545	89.9%
Rural Areas	2.566	2.109	82.2%	2.228	1.500	67.3%
Urban Areas	7.429	7.356	99.0%	7.281	7.046	96.8%
Minnesota	5.611	5.395	96.1%	4.938	4.550	92.1%
Rural Areas	1.498	1.319	88.1%	1.028	0.761	74.0%
Urban Areas	4.112	4.075	99.1%	3.910	3.790	96.9%
Mississippi	2.986	2.353	78.8%	1.984	1.078	54.4%
Rural Areas	1.517	0.928	61.1%	0.753	0.300	39.9%
Urban Areas	1.469	1.425	97.0%	1.231	0.778	63.2%
Missouri	6.126	5.527	90.2%	5.127	4.491	87.6%
Rural Areas	1.837	1.281	69.7%	1.091	0.686	62.8%
Urban Areas	4.290	4.246	99.0%	4.035	3.806	94.3%
Montana	1.062	0.916	86.2%	0.701	0.645	92.0%
Rural Areas	0.488	0.354	72.5%	0.248	0.194	78.4%
Urban Areas	0.574	0.561	97.9%	0.454	0.451	99.4%

	Pop. Evaluated	Fixed 25/3 Mbps and Mobile LTE 5/1 Mbps		Pop. Evaluated	Fixed 25/3 Mbps and Mobile LTE 10/3 Mbps	
		Pop.	% of Pop.		Pop.	% of Pop.
Nebraska	1.929	1.726	89.5%	1.311	1.220	93.1%
Rural Areas	0.519	0.339	65.2%	0.147	0.098	66.7%
Urban Areas	1.410	1.387	98.4%	1.164	1.123	96.4%
Nevada	3.034	2.853	94.0%	2.956	2.731	92.4%
Rural Areas	0.216	0.106	49.4%	0.174	0.083	47.9%
Urban Areas	2.819	2.746	97.4%	2.782	2.648	95.2%
New Hampshire	1.356	1.302	96.0%	1.282	1.130	88.1%
Rural Areas	0.540	0.497	92.1%	0.491	0.381	77.5%
Urban Areas	0.817	0.805	98.5%	0.791	0.749	94.6%
New Jersey	8.909	8.840	99.2%	8.909	8.840	99.2%
Rural Areas	0.465	0.456	98.2%	0.465	0.456	98.2%
Urban Areas	8.444	8.384	99.3%	8.444	8.384	99.3%
New Mexico	2.095	1.776	84.8%	1.863	1.376	73.9%
Rural Areas	0.507	0.254	50.0%	0.380	0.146	38.4%
Urban Areas	1.588	1.523	95.9%	1.483	1.230	83.0%
New York	19.542	19.312	98.8%	19.080	18.702	98.0%
Rural Areas	2.350	2.127	90.5%	2.010	1.710	85.1%
Urban Areas	17.193	17.185	100.0%	17.070	16.992	99.5%
North Carolina	10.383	9.895	95.3%	9.675	8.711	90.0%
Rural Areas	3.458	2.981	86.2%	2.867	2.220	77.4%
Urban Areas	6.926	6.914	99.8%	6.808	6.491	95.3%
North Dakota	0.760	0.714	93.9%	0.465	0.433	93.2%
Rural Areas	0.341	0.305	89.3%	0.127	0.105	82.5%
Urban Areas	0.419	0.409	97.7%	0.338	0.328	97.2%
Ohio	11.689	11.143	95.3%	11.180	10.673	95.5%
Rural Areas	2.586	2.099	81.2%	2.213	1.801	81.4%
Urban Areas	9.103	9.044	99.4%	8.967	8.872	98.9%
Oklahoma	3.943	3.304	83.8%	3.547	2.454	69.2%
Rural Areas	1.355	0.826	60.9%	1.059	0.412	38.9%
Urban Areas	2.588	2.478	95.8%	2.488	2.042	82.1%
Oregon	4.191	3.923	93.6%	4.005	3.553	88.7%
Rural Areas	0.856	0.633	74.0%	0.753	0.496	65.9%
Urban Areas	3.335	3.290	98.7%	3.251	3.057	94.0%
Pennsylvania	12.807	12.210	95.3%	12.206	11.625	95.2%
Rural Areas	2.733	2.315	84.7%	2.308	1.919	83.1%
Urban Areas	10.074	9.896	98.2%	9.899	9.707	98.1%
Rhode Island	1.057	1.041	98.5%	1.057	1.041	98.5%
Rural Areas	0.098	0.096	97.6%	0.098	0.096	97.6%
Urban Areas	0.959	0.945	98.5%	0.959	0.945	98.5%
South Carolina	5.084	4.558	89.7%	4.589	4.226	92.1%
Rural Areas	1.730	1.296	74.9%	1.359	1.065	78.4%
Urban Areas	3.354	3.262	97.2%	3.231	3.161	97.8%
South Dakota	0.882	0.807	91.6%	0.399	0.383	96.0%
Rural Areas	0.396	0.326	82.1%	0.096	0.082	85.2%
Urban Areas	0.485	0.482	99.3%	0.303	0.302	99.5%
Tennessee	6.770	6.233	92.1%	5.812	5.397	92.9%

	Pop. Evaluated	Fixed 25/3 Mbps and Mobile LTE 5/1 Mbps		Pop. Evaluated	Fixed 25/3 Mbps and Mobile LTE 10/3 Mbps	
		Pop.	% of Pop.		Pop.	% of Pop.
Rural Areas	2.290	1.816	79.3%	1.515	1.200	79.2%
Urban Areas	4.480	4.417	98.6%	4.297	4.198	97.7%
Texas	28.701	27.009	94.1%	27.593	23.909	86.7%
Rural Areas	4.799	3.611	75.2%	4.102	2.318	56.5%
Urban Areas	23.902	23.397	97.9%	23.490	21.591	91.9%
Utah	3.161	2.997	94.8%	2.994	2.840	94.9%
Rural Areas	0.403	0.274	67.9%	0.296	0.195	66.0%
Urban Areas	2.758	2.723	98.7%	2.698	2.644	98.0%
Vermont	0.626	0.577	92.1%	0.380	0.364	95.8%
Rural Areas	0.385	0.339	88.0%	0.184	0.171	93.0%
Urban Areas	0.241	0.238	98.7%	0.196	0.193	98.5%
Virginia	8.523	7.870	92.3%	7.576	6.651	87.8%
Rural Areas	2.097	1.578	75.2%	1.398	0.748	53.5%
Urban Areas	6.427	6.293	97.9%	6.179	5.903	95.5%
Washington	7.535	7.177	95.2%	7.417	6.800	91.7%
Rural Areas	1.311	1.032	78.7%	1.234	0.873	70.7%
Urban Areas	6.225	6.146	98.7%	6.184	5.927	95.9%
West Virginia	1.806	1.457	80.7%	1.090	0.807	74.1%
Rural Areas	0.921	0.616	66.8%	0.404	0.234	57.9%
Urban Areas	0.885	0.841	95.1%	0.686	0.573	83.6%
Wisconsin	5.813	5.400	92.9%	5.244	4.399	83.9%
Rural Areas	1.755	1.354	77.1%	1.290	0.721	55.9%
Urban Areas	4.058	4.047	99.7%	3.954	3.678	93.0%
Wyoming	0.578	0.498	86.3%	0.333	0.079	23.7%
Rural Areas	0.219	0.142	64.6%	0.083	0.015	18.3%
Urban Areas	0.358	0.357	99.5%	0.250	0.064	25.5%
American Samoa	0.051	0.000	0.0%	*	*	*
Rural Areas	0.008	0.000	0.0%	*	*	*
Urban Areas	0.043	0.000	0.0%	*	*	*
Guam	0.168	0.110	65.5%	*	*	*
Rural Areas	0.011	0.004	34.7%	*	*	*
Urban Areas	0.157	0.106	67.7%	*	*	*
Northern Mariana Islands	0.052	0.046	88.6%	*	*	*
Rural Areas	0.006	0.003	48.4%	*	*	*
Urban Areas	0.046	0.043	93.6%	*	*	*
Puerto Rico	3.195	2.851	89.2%	*	*	*
Rural Areas	0.207	0.134	64.7%	*	*	*
Urban Areas	2.988	2.717	90.9%	*	*	*
U.S. Virgin Islands	0.107	0.105	98.0%	*	*	*
Rural Areas	0.007	0.006	94.0%	*	*	*
Urban Areas	0.100	0.099	98.3%	*	*	*

APPENDIX 3

**Deployment (Millions) of Fixed Terrestrial 25/3 Mbps or Mobile LTE With a Minimum
Advertised Speed of 5/1 Mbps; and Fixed 25/3 Mbps or Mobile LTE With a Median Speed of 10/3
Mbps by State, District of Columbia, and U.S. Territory
(As of December 31, 2018)¹**

	Pop. Evaluated	Fixed 25/3 Mbps or Mobile LTE 5/1 Mbps		Pop. Evaluated	Fixed 25/3 Mbps or Mobile LTE 10/3 Mbps	
		Pop.	% of Pop.		Pop.	% of Pop.
United States	327.167	326.918	99.9%	304.288	301.608	99.1%
Rural Areas	64.504	64.264	99.6%	48.142	45.710	94.9%
Urban Areas	262.663	262.653	100.0%	256.145	255.897	99.9%
Alabama	4.888	4.886	100.0%	4.208	4.151	98.6%
Rural Areas	2.017	2.015	99.9%	1.476	1.421	96.3%
Urban Areas	2.871	2.871	100.0%	2.732	2.730	99.9%
Alaska	0.737	0.672	91.2%	0.655	0.573	87.5%
Rural Areas	0.263	0.206	78.4%	0.214	0.141	65.9%
Urban Areas	0.474	0.466	98.3%	0.440	0.432	98.0%
Arizona	7.172	7.147	99.7%	7.055	6.938	98.3%
Rural Areas	0.887	0.862	97.2%	0.825	0.731	88.6%
Urban Areas	6.284	6.284	100.0%	6.229	6.207	99.6%
Arkansas	3.014	3.013	100.0%	2.272	2.174	95.7%
Rural Areas	1.339	1.338	99.9%	0.805	0.723	89.9%
Urban Areas	1.675	1.675	100.0%	1.468	1.450	98.8%
California	39.557	39.541	100.0%	39.454	39.363	99.8%
Rural Areas	2.381	2.366	99.4%	2.314	2.231	96.4%
Urban Areas	37.176	37.175	100.0%	37.140	37.132	100.0%
Colorado	5.695	5.691	99.9%	5.235	5.226	99.8%
Rural Areas	0.896	0.892	99.6%	0.605	0.596	98.6%
Urban Areas	4.799	4.799	100.0%	4.630	4.630	100.0%
Connecticut	3.573	3.573	100.0%	3.573	3.573	100.0%
Rural Areas	0.433	0.433	100.0%	0.433	0.433	100.0%
Urban Areas	3.139	3.139	100.0%	3.139	3.139	100.0%
Delaware	0.967	0.967	100.0%	0.967	0.967	100.0%
Rural Areas	0.173	0.173	100.0%	0.173	0.173	100.0%
Urban Areas	0.795	0.795	100.0%	0.795	0.795	100.0%
District of Columbia	0.702	0.702	100.0%	0.702	0.702	100.0%
Florida	21.299	21.298	100.0%	20.975	20.849	99.4%
Rural Areas	2.107	2.106	99.9%	1.871	1.758	94.0%
Urban Areas	19.191	19.191	100.0%	19.105	19.092	99.9%
Georgia	10.519	10.519	100.0%	9.076	9.006	99.2%
Rural Areas	2.589	2.588	100.0%	1.558	1.497	96.1%
Urban Areas	7.931	7.931	100.0%	7.518	7.509	99.9%
Hawaii	1.420	1.420	99.9%	1.420	1.420	99.9%
Rural Areas	0.133	0.132	99.4%	0.133	0.132	99.4%

¹ Because the Commission does not have Ookla speed data for the U.S. Territories, no data is available regarding the median speed tests of at least 10/3 Mbps in such locations, which have been denoted with an asterisk (*).

	Pop. Evaluated	Fixed 25/3 Mbps or Mobile LTE 5/1 Mbps		Pop. Evaluated	Fixed 25/3 Mbps or Mobile LTE 10/3 Mbps	
		Pop.	% of Pop.		Pop.	% of Pop.
Urban Areas	1.288	1.288	100.0%	1.288	1.288	100.0%
Idaho	1.754	1.746	99.5%	1.421	1.382	97.2%
Rural Areas	0.551	0.542	98.5%	0.338	0.304	90.1%
Urban Areas	1.203	1.203	100.0%	1.084	1.078	99.5%
Illinois	12.741	12.741	100.0%	11.966	11.919	99.6%
Rural Areas	1.470	1.470	100.0%	0.972	0.927	95.4%
Urban Areas	11.271	11.271	100.0%	10.995	10.992	100.0%
Indiana	6.692	6.692	100.0%	5.987	5.954	99.5%
Rural Areas	1.849	1.849	100.0%	1.346	1.314	97.6%
Urban Areas	4.842	4.842	100.0%	4.641	4.640	100.0%
Iowa	3.156	3.155	100.0%	2.136	2.117	99.1%
Rural Areas	1.142	1.140	99.9%	0.448	0.433	96.6%
Urban Areas	2.014	2.014	100.0%	1.688	1.684	99.8%
Kansas	2.911	2.911	100.0%	2.294	2.282	99.5%
Rural Areas	0.755	0.755	100.0%	0.345	0.340	98.6%
Urban Areas	2.157	2.157	100.0%	1.949	1.942	99.6%
Kentucky	4.468	4.462	99.9%	3.422	3.361	98.2%
Rural Areas	1.837	1.831	99.7%	0.956	0.901	94.3%
Urban Areas	2.632	2.632	100.0%	2.466	2.460	99.7%
Louisiana	4.660	4.660	100.0%	4.225	4.158	98.4%
Rural Areas	1.253	1.253	100.0%	0.941	0.876	93.1%
Urban Areas	3.407	3.407	100.0%	3.284	3.282	99.9%
Maine	1.338	1.336	99.8%	1.227	1.209	98.5%
Rural Areas	0.831	0.829	99.7%	0.727	0.709	97.5%
Urban Areas	0.507	0.507	100.0%	0.500	0.500	100.0%
Maryland	6.043	6.043	100.0%	5.903	5.898	99.9%
Rural Areas	0.808	0.808	100.0%	0.713	0.708	99.4%
Urban Areas	5.235	5.235	100.0%	5.191	5.190	100.0%
Massachusetts	6.902	6.902	100.0%	6.891	6.891	100.0%
Rural Areas	0.554	0.554	100.0%	0.552	0.552	100.0%
Urban Areas	6.348	6.348	100.0%	6.339	6.339	100.0%
Michigan	9.996	9.995	100.0%	9.509	9.421	99.1%
Rural Areas	2.566	2.565	100.0%	2.228	2.141	96.1%
Urban Areas	7.429	7.429	100.0%	7.281	7.280	100.0%
Minnesota	5.611	5.611	100.0%	4.938	4.908	99.4%
Rural Areas	1.498	1.498	100.0%	1.028	0.999	97.2%
Urban Areas	4.112	4.112	100.0%	3.910	3.909	100.0%
Mississippi	2.986	2.986	100.0%	1.984	1.869	94.2%
Rural Areas	1.517	1.517	100.0%	0.753	0.650	86.4%
Urban Areas	1.469	1.469	100.0%	1.231	1.219	99.0%
Missouri	6.126	6.125	100.0%	5.127	5.063	98.8%
Rural Areas	1.837	1.836	99.9%	1.091	1.029	94.3%
Urban Areas	4.290	4.290	100.0%	4.035	4.034	100.0%
Montana	1.062	1.054	99.2%	0.701	0.693	98.8%
Rural Areas	0.488	0.481	98.5%	0.248	0.241	97.1%
Urban Areas	0.574	0.573	99.8%	0.454	0.453	99.8%

	Pop. Evaluated	Fixed 25/3 Mbps or Mobile LTE 5/1 Mbps		Pop. Evaluated	Fixed 25/3 Mbps or Mobile LTE 10/3 Mbps	
		Pop.	% of Pop.		Pop.	% of Pop.
Nebraska	1.929	1.929	100.0%	1.311	1.308	99.8%
Rural Areas	0.519	0.519	100.0%	0.147	0.144	98.3%
Urban Areas	1.410	1.410	100.0%	1.164	1.164	100.0%
Nevada	3.034	3.030	99.9%	2.956	2.934	99.3%
Rural Areas	0.216	0.211	98.1%	0.174	0.155	89.3%
Urban Areas	2.819	2.819	100.0%	2.782	2.779	99.9%
New Hampshire	1.356	1.356	100.0%	1.282	1.266	98.7%
Rural Areas	0.540	0.539	99.9%	0.491	0.475	96.7%
Urban Areas	0.817	0.817	100.0%	0.791	0.791	100.0%
New Jersey	8.909	8.908	100.0%	8.909	8.908	100.0%
Rural Areas	0.465	0.465	100.0%	0.465	0.465	100.0%
Urban Areas	8.444	8.444	100.0%	8.444	8.444	100.0%
New Mexico	2.095	2.090	99.7%	1.863	1.734	93.1%
Rural Areas	0.507	0.502	98.9%	0.380	0.267	70.4%
Urban Areas	1.588	1.588	100.0%	1.483	1.467	98.9%
New York	19.542	19.540	100.0%	19.080	19.066	99.9%
Rural Areas	2.350	2.347	99.9%	2.010	1.996	99.3%
Urban Areas	17.193	17.193	100.0%	17.070	17.070	100.0%
North Carolina	10.383	10.380	100.0%	9.675	9.542	98.6%
Rural Areas	3.458	3.454	99.9%	2.867	2.739	95.5%
Urban Areas	6.926	6.926	100.0%	6.808	6.804	99.9%
North Dakota	0.760	0.760	100.0%	0.465	0.464	100.0%
Rural Areas	0.341	0.341	100.0%	0.127	0.127	99.9%
Urban Areas	0.419	0.419	100.0%	0.338	0.338	100.0%
Ohio	11.689	11.687	100.0%	11.180	11.158	99.8%
Rural Areas	2.586	2.584	99.9%	2.213	2.192	99.1%
Urban Areas	9.103	9.103	100.0%	8.967	8.966	100.0%
Oklahoma	3.943	3.940	99.9%	3.547	3.370	95.0%
Rural Areas	1.355	1.353	99.8%	1.059	0.905	85.4%
Urban Areas	2.588	2.588	100.0%	2.488	2.466	99.1%
Oregon	4.191	4.176	99.6%	4.005	3.953	98.7%
Rural Areas	0.856	0.841	98.3%	0.753	0.704	93.4%
Urban Areas	3.335	3.335	100.0%	3.251	3.249	99.9%
Pennsylvania	12.807	12.805	100.0%	12.206	12.185	99.8%
Rural Areas	2.733	2.731	99.9%	2.308	2.287	99.1%
Urban Areas	10.074	10.074	100.0%	9.899	9.898	100.0%
Rhode Island	1.057	1.057	100.0%	1.057	1.057	100.0%
Rural Areas	0.098	0.098	100.0%	0.098	0.098	100.0%
Urban Areas	0.959	0.959	100.0%	0.959	0.959	100.0%
South Carolina	5.084	5.084	100.0%	4.589	4.589	100.0%
Rural Areas	1.730	1.729	100.0%	1.359	1.358	100.0%
Urban Areas	3.354	3.354	100.0%	3.231	3.231	100.0%
South Dakota	0.882	0.881	99.9%	0.399	0.399	99.9%
Rural Areas	0.396	0.396	99.9%	0.096	0.095	99.5%
Urban Areas	0.485	0.485	100.0%	0.303	0.303	100.0%
Tennessee	6.770	6.765	99.9%	5.812	5.797	99.7%

	Pop. Evaluated	Fixed 25/3 Mbps or Mobile LTE 5/1 Mbps		Pop. Evaluated	Fixed 25/3 Mbps or Mobile LTE 10/3 Mbps	
		Pop.	% of Pop.		Pop.	% of Pop.
Rural Areas	2.290	2.285	99.8%	1.515	1.500	99.0%
Urban Areas	4.480	4.480	100.0%	4.297	4.297	100.0%
Texas	28.701	28.699	100.0%	27.593	27.106	98.2%
Rural Areas	4.799	4.797	100.0%	4.102	3.677	89.6%
Urban Areas	23.902	23.902	100.0%	23.490	23.429	99.7%
Utah	3.161	3.158	99.9%	2.994	2.986	99.7%
Rural Areas	0.403	0.400	99.3%	0.296	0.289	97.7%
Urban Areas	2.758	2.758	100.0%	2.698	2.697	100.0%
Vermont	0.626	0.626	100.0%	0.380	0.380	100.0%
Rural Areas	0.385	0.385	100.0%	0.184	0.184	99.9%
Urban Areas	0.241	0.241	100.0%	0.196	0.196	100.0%
Virginia	8.523	8.518	99.9%	7.576	7.450	98.3%
Rural Areas	2.097	2.092	99.8%	1.398	1.272	91.0%
Urban Areas	6.427	6.427	100.0%	6.179	6.178	100.0%
Washington	7.535	7.525	99.9%	7.417	7.373	99.4%
Rural Areas	1.311	1.300	99.2%	1.234	1.194	96.8%
Urban Areas	6.225	6.225	100.0%	6.184	6.179	99.9%
West Virginia	1.806	1.770	98.0%	1.090	1.048	96.2%
Rural Areas	0.921	0.885	96.1%	0.404	0.363	89.9%
Urban Areas	0.885	0.885	100.0%	0.686	0.685	99.8%
Wisconsin	5.813	5.811	100.0%	5.244	5.148	98.2%
Rural Areas	1.755	1.753	99.8%	1.290	1.196	92.8%
Urban Areas	4.058	4.058	100.0%	3.954	3.952	99.9%
Wyoming	0.578	0.575	99.6%	0.333	0.315	94.6%
Rural Areas	0.219	0.217	98.9%	0.083	0.066	78.8%
Urban Areas	0.358	0.358	100.0%	0.250	0.249	99.8%
American Samoa	0.051	0.051	100.0%	*	*	*
Rural Areas	0.008	0.008	99.8%	*	*	*
Urban Areas	0.043	0.043	100.0%	*	*	*
Guam	0.168	0.168	100.0%	*	*	*
Rural Areas	0.011	0.011	99.8%	*	*	*
Urban Areas	0.157	0.157	100.0%	*	*	*
Northern Mariana Islands	0.052	0.052	99.7%	*	*	*
Rural Areas	0.006	0.006	97.6%	*	*	*
Urban Areas	0.046	0.046	100.0%	*	*	*
Puerto Rico	3.195	3.195	100.0%	*	*	*
Rural Areas	0.207	0.206	99.7%	*	*	*
Urban Areas	2.988	2.988	100.0%	*	*	*
U.S. Virgin Islands	0.107	0.107	100.0%	*	*	*
Rural Areas	0.007	0.007	100.0%	*	*	*
Urban Areas	0.100	0.100	100.0%	*	*	*

APPENDIX 4

**Deployment of Fixed Terrestrial 25/3 Mbps and Mobile LTE With a Minimum Advertised
Speed of 5/1 Mbps Services By County and County Equivalent
(As of December 31, 2018)**

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Alabama						
Autauga County	55,601	80.8%	100.0%	80.8%	93.536	\$29,372
Baldwin County	218,021	88.1%	99.9%	88.0%	137.139	\$31,203
Barbour County	24,881	69.2%	99.9%	69.2%	28.118	\$18,461
Bibb County	22,400	30.7%	100.0%	30.7%	35.979	\$20,199
Blount County	57,840	64.8%	100.0%	64.8%	89.706	\$22,656
Bullock County	10,138	91.2%	99.9%	91.2%	16.278	\$20,346
Butler County	19,680	65.8%	99.8%	65.8%	25.334	\$20,430
Calhoun County	114,277	92.3%	100.0%	92.3%	188.617	\$24,706
Chambers County	33,615	83.8%	100.0%	83.8%	56.351	\$22,827
Cherokee County	26,031	98.6%	100.0%	98.6%	47.013	\$23,356
Chilton County	44,153	66.6%	100.0%	66.6%	63.726	\$24,611
Choctaw County	12,841	21.8%	99.7%	21.8%	14.057	\$22,182
Clarke County	23,920	62.3%	99.6%	62.3%	19.314	\$21,111
Clay County	13,275	43.5%	100.0%	43.5%	21.980	\$23,147
Cleburne County	14,986	8.9%	99.5%	8.9%	26.756	\$21,989
Coffee County	51,909	91.0%	100.0%	91.0%	76.452	\$27,577
Colbert County	54,762	83.6%	100.0%	83.6%	92.407	\$24,918
Conecuh County	12,277	40.3%	100.0%	40.3%	14.441	\$17,542
Coosa County	10,715	78.6%	100.0%	78.6%	16.461	\$22,963
Covington County	36,986	84.7%	100.0%	84.7%	35.893	\$23,071
Crenshaw County	13,824	74.6%	100.0%	74.6%	22.705	\$23,353
Cullman County	83,441	77.3%	100.0%	77.3%	113.550	\$22,980
Dale County	48,956	94.6%	100.0%	94.6%	87.242	\$23,837
Dallas County	38,310	75.9%	99.7%	75.9%	39.144	\$18,910
DeKalb County	71,385	98.2%	100.0%	98.2%	91.862	\$21,004
Elmore County	81,887	92.6%	100.0%	92.6%	132.399	\$27,475
Escambia County	36,748	75.0%	99.8%	75.0%	38.883	\$18,161
Etowah County	102,501	94.6%	100.0%	94.6%	191.594	\$24,065
Fayette County	16,433	19.7%	100.0%	19.7%	26.181	\$21,862
Franklin County	31,363	64.4%	99.9%	64.4%	49.482	\$19,776
Geneva County	26,314	56.0%	100.0%	56.0%	45.811	\$20,471
Greene County	8,233	1.0%	100.0%	1.0%	12.723	\$14,209

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Hale County	14,726	53.9%	100.0%	53.9%	22.868	\$20,272
Henry County	17,209	58.1%	99.9%	58.1%	30.635	\$24,069
Houston County	104,722	87.3%	100.0%	87.3%	180.610	\$25,990
Jackson County	51,736	95.2%	99.4%	94.6%	47.998	\$21,608
Jefferson County	659,300	99.0%	100.0%	99.0%	593.282	\$30,657
Lamar County	13,844	38.6%	100.0%	38.6%	22.888	\$21,666
Lauderdale County	92,387	81.1%	100.0%	81.1%	138.367	\$27,189
Lawrence County	32,957	55.0%	99.8%	55.0%	47.717	\$23,557
Lee County	163,940	96.3%	100.0%	96.3%	269.844	\$26,960
Limestone County	96,129	93.0%	100.0%	93.0%	171.678	\$27,699
Lowndes County	9,974	13.0%	99.8%	13.0%	13.932	\$19,491
Macon County	18,439	65.6%	100.0%	65.6%	30.283	\$20,125
Madison County	366,496	96.8%	100.0%	96.8%	457.210	\$35,526
Marengo County	19,066	13.2%	100.0%	13.2%	19.517	\$23,056
Marion County	29,763	72.1%	100.0%	72.1%	40.096	\$21,391
Marshall County	96,108	95.3%	100.0%	95.3%	169.850	\$23,833
Mobile County	413,757	95.2%	100.0%	95.2%	336.542	\$25,215
Monroe County	21,067	60.8%	98.8%	60.8%	20.540	\$18,890
Montgomery County	225,763	97.2%	100.0%	97.2%	287.872	\$28,008
Morgan County	119,088	91.4%	100.0%	91.4%	205.559	\$25,907
Perry County	9,140	0.1%	100.0%	0.1%	12.700	\$13,678
Pickens County	19,938	48.6%	100.0%	48.6%	22.621	\$22,417
Pike County	33,338	92.3%	99.7%	92.0%	49.603	\$21,137
Randolph County	22,725	55.9%	100.0%	55.9%	39.144	\$23,247
Russell County	57,780	89.3%	100.0%	89.3%	90.121	\$22,055
Shelby County	215,706	95.4%	100.0%	95.4%	274.809	\$36,576
St. Clair County	88,690	88.5%	100.0%	88.5%	140.354	\$24,861
Sumter County	12,691	46.4%	100.0%	46.4%	14.040	\$15,882
Talladega County	79,828	81.5%	100.0%	81.5%	108.348	\$22,498
Tallapoosa County	40,497	91.7%	100.0%	91.7%	56.519	\$23,655
Tuscaloosa County	208,910	91.9%	100.0%	91.9%	158.055	\$26,064
Walker County	63,711	75.6%	100.0%	75.6%	80.525	\$22,772
Washington County	16,378	35.1%	99.9%	35.1%	15.162	\$22,776
Wilcox County	10,627	39.3%	99.9%	39.3%	11.961	\$16,584
Winston County	23,660	51.1%	99.9%	51.1%	38.598	\$21,799
Alaska						
Aleutians East Borough	3,515	0.0%	0.0%	0.0%	0.503	\$32,510
Aleutians West Census Area	5,723	0.0%	51.2%	0.0%	1.304	\$37,070
Anchorage Municipality	291,538	99.7%	99.8%	99.5%	171.022	\$39,839

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Bethel Census Area	18,216	0.0%	0.0%	0.0%	0.449	\$19,760
Bristol Bay Borough	877	0.0%	0.0%	0.0%	1.741	\$45,259
Denali Borough	2,059	40.3%	97.4%	40.3%	0.161	\$34,956
Dillingham Census Area	5,000	0.0%	0.0%	0.0%	0.269	\$25,334
Fairbanks North Star Borough	98,971	88.8%	99.8%	88.8%	13.487	\$36,374
Haines Borough	2,474	92.3%	78.5%	74.9%	1.067	\$33,521
Hoonah-Angoon Census Area	2,151	25.0%	78.1%	20.3%	0.286	\$35,355
Juneau City and Borough	32,113	99.3%	99.6%	98.9%	11.885	\$43,276
Kenai Peninsula Borough	58,533	88.3%	98.1%	87.2%	3.641	\$33,820
Ketchikan Gateway Borough	13,918	98.9%	99.6%	98.7%	2.865	\$34,900
Kodiak Island Borough	13,345	85.7%	93.1%	85.7%	2.038	\$32,516
Kusilvak Census Area	7,996	0.0%	7.5%	0.0%	0.468	\$12,578
Lake and Peninsula Borough	1,587	0.0%	0.0%	0.0%	0.067	\$24,571
Matanuska-Susitna Borough	107,610	90.4%	99.7%	90.4%	4.373	\$30,943
Nome Census Area	10,008	33.7%	56.2%	33.7%	0.436	\$22,293
North Slope Borough	9,872	0.0%	73.2%	0.0%	0.111	\$49,903
Northwest Arctic Borough	7,671	0.0%	12.9%	0.0%	0.216	\$23,230
Petersburg Borough	3,221	79.7%	77.3%	60.5%	0.981	\$33,227
Prince of Wales-Hyder Census Area	6,411	0.0%	60.8%	0.0%	1.634	\$27,236
Sitka City and Borough	8,647	97.8%	99.3%	97.8%	3.013	\$38,423
Skagway Municipality	1,148	97.8%	80.1%	79.9%	2.538	\$39,842
Southeast Fairbanks Census	6,918	63.7%	83.8%	57.8%	0.279	\$32,409
Valdez-Cordova Census Area	9,164	85.1%	94.8%	83.3%	0.268	\$38,507
Wrangell City and Borough	2,503	89.6%	74.2%	70.5%	0.985	\$31,489
Yakutat City and Borough	604	0.0%	0.0%	0.0%	0.079	\$31,878
Yukon-Koyukuk Census Area	5,327	0.0%	12.8%	0.0%	0.037	\$22,386
Arizona						
Apache County	71,818	0.2%	84.6%	0.2%	6.414	\$14,499
Cochise County	126,770	70.0%	99.9%	70.0%	20.561	\$25,436
Coconino County	142,854	69.9%	99.3%	69.9%	7.673	\$26,387
Gila County	53,889	74.3%	99.0%	73.9%	11.326	\$22,939
Graham County	38,072	77.1%	99.5%	77.1%	8.236	\$18,113
Greenlee County	9,483	52.0%	99.3%	51.9%	5.145	\$25,349
La Paz County	21,098	54.9%	100.0%	54.9%	4.689	\$21,845
Maricopa County	4,410,761	93.1%	100.0%	93.1%	479.423	\$31,697
Mohave County	209,549	79.6%	99.8%	79.5%	15.742	\$24,829
Navajo County	110,445	44.8%	89.8%	44.8%	11.100	\$18,333
Pima County	1,039,064	98.2%	100.0%	98.2%	113.101	\$28,480
Pinal County	447,091	68.2%	100.0%	68.2%	83.325	\$23,653
Santa Cruz County	46,511	95.5%	99.9%	95.5%	37.602	\$20,324
Yavapai County	231,992	87.8%	99.9%	87.8%	28.558	\$28,829

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Yuma County	212,127	89.7%	100.0%	89.7%	38.471	\$21,178
Arkansas						
Arkansas County	17,769	19.1%	100.0%	19.1%	17.971	\$24,714
Ashley County	20,046	28.0%	100.0%	28.0%	21.663	\$22,052
Baxter County	41,619	79.2%	99.9%	79.1%	75.086	\$26,004
Benton County	272,597	100.0%	100.0%	100.0%	321.703	\$32,624
Boone County	37,480	86.0%	100.0%	86.0%	63.501	\$23,998
Bradley County	10,896	62.2%	100.0%	62.2%	16.783	\$22,411
Calhoun County	5,277	7.0%	100.0%	7.0%	8.395	\$24,509
Carroll County	28,222	97.3%	100.0%	97.3%	44.791	\$24,185
Chicot County	10,438	54.8%	100.0%	54.8%	16.200	\$21,843
Clark County	22,061	84.8%	100.0%	84.8%	25.472	\$21,571
Clay County	14,847	59.4%	100.0%	59.4%	23.218	\$20,353
Cleburne County	24,965	53.2%	100.0%	53.2%	45.088	\$26,620
Cleveland County	8,018	83.9%	100.0%	83.9%	13.413	\$23,538
Columbia County	23,537	71.1%	100.0%	71.1%	30.725	\$21,372
Conway County	20,891	46.3%	100.0%	46.3%	37.829	\$23,750
Craighead County	108,546	87.8%	100.0%	87.8%	153.486	\$26,432
Crawford County	63,405	85.3%	100.0%	85.3%	106.905	\$23,851
Crittenden County	48,342	79.4%	100.0%	79.4%	79.280	\$21,882
Cross County	16,676	57.0%	100.0%	57.0%	27.055	\$24,486
Dallas County	7,182	40.3%	100.0%	40.3%	10.761	\$19,401
Desha County	11,512	69.7%	100.0%	69.7%	14.987	\$18,475
Drew County	18,328	67.9%	100.0%	67.9%	22.126	\$23,005
Faulkner County	124,804	82.5%	100.0%	82.5%	192.633	\$26,163
Franklin County	17,810	18.9%	100.0%	18.9%	29.252	\$20,262
Fulton County	12,268	34.9%	100.0%	34.9%	19.845	\$19,413
Garland County	99,153	97.2%	100.0%	97.2%	146.291	\$26,791
Grant County	18,188	56.9%	100.0%	56.9%	28.787	\$25,907
Greene County	45,325	72.5%	100.0%	72.5%	78.458	\$22,874
Hempstead County	21,741	64.9%	100.0%	64.9%	29.884	\$20,168
Hot Spring County	33,701	59.9%	100.0%	59.9%	54.780	\$21,064
Howard County	13,341	17.1%	100.0%	17.1%	22.667	\$24,590
Independence County	37,678	68.0%	100.0%	68.0%	49.320	\$23,426
Izard County	13,593	51.5%	100.0%	51.5%	23.413	\$20,501
Jackson County	16,811	77.9%	100.0%	77.9%	26.518	\$19,848
Jefferson County	68,114	59.5%	100.0%	59.5%	78.225	\$20,925
Johnson County	26,740	62.2%	99.5%	62.2%	40.527	\$19,681
Lafayette County	6,682	12.3%	100.0%	12.3%	12.649	\$26,005
Lawrence County	16,434	49.6%	100.0%	49.6%	27.967	\$20,451
Lee County	8,985	31.9%	100.0%	31.9%	14.910	\$15,771
Lincoln County	13,383	29.5%	100.0%	29.5%	23.834	\$13,636

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Little River County	12,326	43.9%	100.0%	43.9%	23.158	\$26,216
Logan County	21,737	38.1%	100.0%	38.1%	30.697	\$22,221
Lonoke County	73,655	77.5%	100.0%	77.5%	95.565	\$26,222
Madison County	16,481	38.4%	100.0%	38.4%	19.755	\$23,875
Marion County	16,722	58.0%	100.0%	58.0%	28.010	\$19,710
Miller County	43,592	92.7%	100.0%	92.7%	69.683	\$22,938
Mississippi County	41,239	73.2%	100.0%	73.2%	45.792	\$20,879
Monroe County	6,900	12.5%	100.0%	12.5%	11.365	\$22,274
Montgomery County	8,924	46.7%	99.9%	46.7%	11.443	\$22,347
Nevada County	8,326	47.2%	100.0%	47.2%	13.476	\$18,618
Newton County	7,805	13.7%	95.7%	13.7%	9.508	\$18,907
Ouachita County	23,606	61.0%	100.0%	61.0%	32.214	\$21,520
Perry County	10,352	68.8%	99.5%	68.8%	18.774	\$21,699
Phillips County	18,029	85.8%	100.0%	85.8%	25.916	\$18,402
Pike County	10,673	44.6%	100.0%	44.6%	17.770	\$21,919
Poinsett County	23,974	63.8%	100.0%	63.8%	31.612	\$19,413
Polk County	20,049	63.5%	100.0%	63.5%	23.376	\$20,176
Pope County	64,000	86.7%	99.9%	86.6%	78.765	\$22,110
Prairie County	8,074	24.9%	100.0%	24.9%	12.461	\$24,075
Pulaski County	392,680	97.1%	100.0%	97.1%	516.845	\$31,359
Randolph County	17,944	68.1%	99.0%	67.7%	27.513	\$21,338
Saline County	121,398	91.1%	100.0%	91.1%	167.769	\$29,358
Scott County	10,319	43.3%	99.6%	43.3%	11.564	\$17,375
Searcy County	7,958	49.3%	99.3%	49.3%	11.947	\$20,709
Sebastian County	127,753	94.5%	100.0%	94.5%	240.177	\$25,084
Sevier County	17,139	76.9%	100.0%	76.9%	30.328	\$20,627
Sharp County	17,366	39.3%	100.0%	39.3%	28.731	\$20,721
St. Francis County	25,439	36.5%	100.0%	36.5%	40.076	\$17,491
Stone County	12,457	39.8%	99.6%	39.7%	20.542	\$20,496
Union County	39,126	72.5%	100.0%	72.5%	37.650	\$24,522
Van Buren County	16,602	13.7%	99.4%	13.7%	23.444	\$21,622
Washington County	236,951	93.5%	100.0%	93.5%	251.549	\$27,823
White County	78,727	64.9%	100.0%	64.9%	76.059	\$23,747
Woodruff County	6,490	31.2%	100.0%	31.2%	11.060	\$21,276
Yell County	21,535	83.4%	100.0%	83.4%	23.156	\$21,584
California						
Alameda County	1,666,749	100.0%	100.0%	100.0%	2,255.358	\$44,283
Alpine County	1,101	40.8%	96.1%	39.1%	1.491	\$29,041
Amador County	39,383	83.6%	99.8%	83.6%	66.236	\$30,100
Butte County	231,256	96.5%	99.6%	96.4%	141.314	\$27,537
Calaveras County	45,602	90.5%	99.6%	90.5%	44.707	\$32,494
Colusa County	21,627	85.9%	99.6%	85.9%	18.794	\$27,336

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Contra Costa County	1,150,215	99.1%	100.0%	99.1%	1,606.586	\$45,524
Del Norte County	27,827	95.7%	97.5%	94.0%	27.651	\$22,832
El Dorado County	190,677	98.5%	99.9%	98.5%	111.645	\$40,382
Fresno County	994,398	99.6%	100.0%	99.6%	166.902	\$23,284
Glenn County	28,047	88.7%	99.9%	88.7%	21.346	\$21,736
Humboldt County	136,373	83.2%	99.0%	83.2%	38.221	\$26,747
Imperial County	181,827	86.7%	100.0%	86.7%	43.535	\$17,590
Inyo County	17,987	92.0%	96.7%	91.7%	1.767	\$31,540
Kern County	896,763	96.3%	100.0%	96.3%	110.277	\$22,553
Kings County	151,361	99.9%	100.0%	99.9%	108.938	\$21,186
Lake County	64,382	84.9%	99.7%	84.8%	51.241	\$25,404
Lassen County	30,802	72.2%	99.9%	72.2%	6.783	\$21,897
Los Angeles County	10,105,518	99.6%	100.0%	99.6%	2,490.342	\$32,469
Madera County	157,671	98.8%	100.0%	98.8%	73.779	\$21,394
Marin County	259,666	97.5%	99.9%	97.5%	499.064	\$69,275
Mariposa County	17,471	33.5%	97.1%	33.4%	12.059	\$29,776
Mendocino County	87,606	76.2%	96.3%	75.9%	24.985	\$27,395
Merced County	274,760	99.6%	100.0%	99.6%	141.997	\$21,634
Modoc County	8,777	64.2%	98.9%	63.8%	2.240	\$23,235
Mono County	14,250	92.3%	98.1%	91.0%	4.674	\$33,421
Monterey County	435,594	99.0%	99.5%	98.6%	132.779	\$28,836
Napa County	139,417	98.3%	100.0%	98.3%	186.296	\$42,677
Nevada County	99,696	89.4%	99.9%	89.4%	104.092	\$37,145
Orange County	3,185,968	98.5%	100.0%	98.5%	4,029.974	\$39,590
Placer County	393,142	97.0%	99.9%	97.0%	279.417	\$41,508
Plumas County	18,804	87.9%	97.8%	86.4%	7.365	\$32,710
Riverside County	2,450,733	98.5%	100.0%	98.5%	340.074	\$27,142
Sacramento County	1,540,974	97.6%	100.0%	97.6%	1,597.454	\$31,311
San Benito County	61,531	99.0%	99.6%	98.8%	44.308	\$31,475
San Bernardino County	2,171,588	96.2%	100.0%	96.2%	108.271	\$23,956
San Diego County	3,343,364	97.8%	100.0%	97.8%	794.784	\$36,156
San Francisco County	883,305	100.0%	100.0%	100.0%	18,844.729	\$64,157
San Joaquin County	752,652	99.9%	100.0%	99.9%	540.962	\$26,145
San Luis Obispo County	284,008	98.2%	99.9%	98.1%	86.100	\$35,832
San Mateo County	769,545	100.0%	99.9%	99.9%	1,716.171	\$57,375
Santa Barbara County	446,527	93.7%	99.9%	93.6%	163.259	\$34,229
Santa Clara County	1,937,570	100.0%	100.0%	100.0%	1,501.876	\$52,451
Santa Cruz County	274,255	100.0%	99.9%	99.9%	616.067	\$39,001
Shasta County	180,039	88.6%	99.8%	88.6%	47.687	\$27,983
Sierra County	2,987	55.0%	75.4%	54.7%	3.134	\$31,972
Siskiyou County	43,724	55.9%	97.4%	55.9%	6.965	\$28,130
Solano County	446,609	93.7%	100.0%	93.7%	543.475	\$33,700

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Sonoma County	499,942	96.3%	99.9%	96.2%	317.252	\$39,929
Stanislaus County	549,814	100.0%	100.0%	100.0%	367.811	\$25,101
Sutter County	96,807	93.5%	100.0%	93.5%	160.699	\$26,070
Tehama County	63,916	87.0%	99.8%	87.0%	21.669	\$23,126
Trinity County	12,535	23.9%	87.6%	23.9%	3.943	\$25,964
Tulare County	465,859	98.6%	99.8%	98.6%	96.567	\$20,421
Tuolumne County	54,538	96.9%	99.5%	96.7%	24.557	\$33,685
Ventura County	850,967	98.5%	100.0%	98.5%	461.696	\$36,891
Yolo County	220,406	89.4%	100.0%	89.4%	217.215	\$32,598
Yuba County	78,039	93.4%	99.3%	93.0%	123.511	\$23,867
Colorado						
Adams County	511,794	97.5%	100.0%	97.5%	438.310	\$28,897
Alamosa County	16,681	99.0%	100.0%	99.0%	23.083	\$21,328
Arapahoe County	651,098	98.6%	100.0%	98.6%	815.810	\$38,972
Archuleta County	13,765	63.2%	99.7%	63.2%	10.195	\$31,035
Baca County	3,585	72.1%	100.0%	72.1%	1.403	\$23,862
Bent County	5,882	80.0%	100.0%	80.0%	3.888	\$14,777
Boulder County	326,048	93.2%	100.0%	93.2%	448.923	\$43,831
Broomfield County	69,237	94.5%	100.0%	94.5%	2,095.935	\$47,016
Chaffee County	20,027	89.4%	99.0%	88.5%	19.762	\$29,365
Cheyenne County	1,876	64.4%	100.0%	64.4%	1.055	\$25,234
Clear Creek County	9,605	77.1%	100.0%	77.1%	24.303	\$40,655
Conejos County	8,199	97.9%	99.4%	97.3%	6.369	\$19,545
Costilla County	3,828	62.7%	99.8%	62.6%	3.120	\$20,715
Crowley County	5,857	88.9%	100.0%	88.9%	7.438	\$14,988
Custer County	4,954	73.5%	99.6%	73.5%	6.707	\$26,976
Delta County	30,953	99.2%	99.8%	99.0%	27.103	\$24,886
Denver County	716,255	99.2%	100.0%	99.2%	4,681.400	\$41,196
Dolores County	2,074	41.7%	85.8%	41.7%	1.944	\$24,505
Douglas County	342,758	98.1%	100.0%	98.1%	407.925	\$51,017
Eagle County	54,993	84.6%	99.2%	84.5%	32.646	\$41,064
El Paso County	713,835	96.5%	100.0%	96.5%	335.638	\$32,348
Elbert County	26,272	78.8%	100.0%	78.8%	14.195	\$43,349
Fremont County	48,021	90.6%	100.0%	90.6%	31.323	\$21,965
Garfield County	59,769	85.3%	99.5%	85.3%	20.277	\$32,491
Gilpin County	6,121	66.5%	100.0%	66.5%	40.835	\$48,460
Grand County	15,524	75.7%	99.8%	75.6%	8.408	\$34,717
Gunnison County	17,246	89.2%	93.1%	87.3%	5.324	\$30,127
Hinsdale County	811	61.8%	3.1%	0.0%	0.726	\$34,644
Huerfano County	6,889	75.7%	99.7%	75.6%	4.330	\$25,636
Jackson County	1,399	30.8%	97.2%	30.8%	0.867	\$25,467
Jefferson County	580,211	98.7%	100.0%	98.7%	759.232	\$41,930

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Kiowa County	1,383	59.7%	100.0%	59.7%	0.782	\$24,012
Kit Carson County	7,163	97.9%	100.0%	97.9%	3.315	\$27,471
La Plata County	56,310	88.7%	100.0%	88.7%	33.279	\$37,864
Lake County	7,824	92.5%	99.5%	92.1%	20.758	\$28,062
Larimer County	350,492	92.1%	99.8%	92.1%	135.012	\$35,390
Las Animas County	14,503	78.5%	100.0%	78.5%	3.039	\$25,118
Lincoln County	5,608	55.3%	100.0%	55.3%	2.176	\$16,219
Logan County	21,528	84.6%	100.0%	84.6%	11.709	\$25,776
Mesa County	153,207	91.3%	99.9%	91.2%	46.022	\$28,518
Mineral County	701	81.9%	77.3%	64.3%	0.801	\$35,229
Moffat County	13,188	95.2%	98.4%	94.8%	2.780	\$27,845
Montezuma County	26,158	76.9%	99.9%	76.9%	12.889	\$25,161
Montrose County	42,214	93.6%	99.9%	93.6%	18.840	\$25,803
Morgan County	28,550	88.1%	100.0%	88.1%	22.297	\$24,189
Otero County	18,432	94.9%	100.0%	94.9%	14.606	\$20,109
Ouray County	4,833	96.0%	100.0%	96.0%	8.924	\$36,138
Park County	18,556	82.9%	98.9%	81.9%	8.458	\$35,939
Phillips County	4,286	22.7%	100.0%	22.7%	6.230	\$29,236
Pitkin County	17,950	89.2%	96.7%	88.1%	18.492	\$56,180
Prowers County	12,164	83.6%	100.0%	83.6%	7.424	\$21,612
Pueblo County	167,528	95.4%	100.0%	95.4%	70.210	\$24,257
Rio Blanco County	6,336	70.4%	99.1%	70.4%	1.967	\$27,057
Rio Grande County	11,250	91.0%	99.8%	90.8%	12.336	\$22,413
Routt County	25,733	95.7%	99.2%	95.5%	10.894	\$40,727
Saguache County	6,841	100.0%	98.8%	98.8%	2.159	\$22,901
San Juan County	762	55.1%	95.0%	55.1%	1.967	\$33,984
San Miguel County	8,189	58.2%	99.9%	58.2%	6.365	\$45,396
Sedgwick County	2,303	73.0%	100.0%	73.0%	4.202	\$25,048
Summit County	31,001	90.3%	100.0%	90.3%	50.958	\$38,310
Teller County	25,083	81.6%	100.0%	81.6%	45.028	\$34,392
Washington County	4,909	39.7%	100.0%	39.7%	1.950	\$26,680
Weld County	314,245	90.6%	100.0%	90.6%	78.813	\$30,626
Yuma County	10,020	63.4%	100.0%	63.4%	4.238	\$25,846
Connecticut						
Fairfield County	943,823	99.9%	100.0%	99.8%	1,510.384	\$55,613
Hartford County	892,697	98.6%	100.0%	98.6%	1,214.394	\$39,260
Litchfield County	181,111	99.8%	100.0%	99.8%	196.740	\$42,443
Middlesex County	162,682	99.2%	100.0%	99.2%	440.513	\$45,293
New Haven County	857,620	99.4%	100.0%	99.4%	1,418.712	\$36,678
New London County	266,784	98.8%	100.0%	98.8%	401.253	\$38,109
Tolland County	150,921	97.0%	100.0%	97.0%	367.908	\$39,668
Windham County	117,026	99.6%	100.0%	99.6%	228.161	\$31,106

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Delaware						
Kent County	178,549	96.2%	100.0%	96.2%	304.598	\$28,100
New Castle County	559,335	97.9%	100.0%	97.9%	1,312.113	\$35,847
Sussex County	229,276	98.6%	99.8%	98.5%	244.932	\$33,983
District of Columbia	702,349	98.1%	100.0%	98.1%	11,504.786	\$53,321
Florida						
Alachua County	269,942	84.8%	100.0%	84.8%	308.498	\$27,896
Baker County	28,355	83.5%	97.8%	82.2%	48.451	\$24,070
Bay County	185,281	94.3%	100.0%	94.3%	244.286	\$28,017
Bradford County	27,732	100.0%	100.0%	100.0%	94.339	\$20,481
Brevard County	596,849	100.0%	99.9%	99.9%	587.644	\$30,987
Broward County	1,951,259	98.0%	100.0%	98.0%	1,612.897	\$31,464
Calhoun County	14,586	69.7%	100.0%	69.7%	25.710	\$18,921
Charlotte County	184,988	98.0%	99.9%	97.9%	271.930	\$30,528
Citrus County	147,928	94.1%	100.0%	94.1%	254.305	\$25,983
Clay County	216,051	100.0%	100.0%	100.0%	357.487	\$29,138
Collier County	378,482	95.4%	99.8%	95.3%	189.400	\$43,256
Columbia County	70,502	81.9%	100.0%	81.9%	88.396	\$23,901
DeSoto County	37,486	100.0%	100.0%	100.0%	58.842	\$18,311
Dixie County	16,700	0.9%	99.7%	0.9%	23.686	\$20,527
Duval County	950,178	100.0%	100.0%	100.0%	1,246.639	\$30,012
Escambia County	315,533	95.8%	100.0%	95.8%	480.658	\$26,730
Flagler County	112,067	96.3%	100.0%	96.3%	230.847	\$27,689
Franklin County	11,736	95.5%	99.9%	95.4%	21.948	\$25,037
Gadsden County	45,894	91.7%	100.0%	91.7%	88.885	\$20,158
Gilchrist County	18,249	25.6%	100.0%	25.6%	52.188	\$21,379
Glades County	13,724	66.2%	100.0%	66.2%	17.027	\$21,020
Gulf County	16,164	88.6%	99.8%	88.4%	28.659	\$21,255
Hamilton County	14,310	64.3%	100.0%	64.3%	27.852	\$15,097
Hardee County	27,245	100.0%	100.0%	100.0%	42.718	\$18,257
Hendry County	41,553	79.0%	100.0%	79.0%	36.047	\$18,900
Hernando County	190,837	97.8%	100.0%	97.8%	403.855	\$24,551
Highlands County	105,412	100.0%	100.0%	100.0%	103.689	\$23,722
Hillsborough County	1,436,849	99.7%	100.0%	99.7%	1,408.380	\$31,173
Holmes County	19,477	41.7%	100.0%	41.7%	40.681	\$18,574
Indian River County	157,413	100.0%	99.8%	99.8%	313.028	\$35,172
Jackson County	48,305	50.9%	100.0%	50.9%	52.634	\$18,882
Jefferson County	14,286	31.2%	100.0%	31.2%	23.886	\$23,448
Lafayette County	8,732	53.5%	99.9%	53.5%	16.069	\$19,870
Lake County	356,491	100.0%	100.0%	100.0%	379.900	\$27,052
Lee County	754,604	91.9%	99.9%	91.8%	961.876	\$31,924
Leon County	292,502	95.7%	100.0%	95.7%	438.631	\$29,754

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Levy County	40,768	15.7%	99.9%	15.7%	36.458	\$22,025
Liberty County	8,456	32.2%	99.8%	32.0%	10.120	\$17,197
Madison County	18,529	61.0%	100.0%	61.0%	26.624	\$19,223
Manatee County	394,834	99.4%	100.0%	99.4%	531.455	\$32,070
Marion County	359,964	92.1%	100.0%	92.1%	227.172	\$24,570
Martin County	160,906	100.0%	99.9%	99.9%	296.075	\$40,389
Miami-Dade County	2,761,581	96.3%	99.9%	96.3%	1,455.213	\$26,838
Monroe County	75,027	95.7%	99.4%	95.1%	76.303	\$43,477
Nassau County	85,832	91.8%	100.0%	91.8%	132.326	\$35,335
Okaloosa County	207,255	93.1%	99.8%	93.1%	222.796	\$31,901
Okeechobee County	41,537	100.0%	100.0%	100.0%	54.021	\$19,943
Orange County	1,380,609	100.0%	100.0%	100.0%	1,528.188	\$28,859
Osceola County	367,956	100.0%	100.0%	100.0%	277.190	\$21,331
Palm Beach County	1,485,939	96.9%	100.0%	96.9%	754.374	\$37,998
Pasco County	539,593	98.7%	100.0%	98.7%	722.457	\$27,786
Pinellas County	975,279	99.9%	99.9%	99.8%	3,562.027	\$33,478
Polk County	707,968	95.5%	100.0%	95.5%	393.789	\$23,812
Putnam County	74,161	82.1%	100.0%	82.1%	101.922	\$19,976
Santa Rosa County	179,337	89.5%	99.9%	89.5%	177.280	\$30,904
Sarasota County	426,688	98.9%	100.0%	98.9%	767.607	\$39,364
Seminole County	467,819	100.0%	100.0%	100.0%	1,512.894	\$33,419
St. Johns County	254,257	100.0%	99.9%	99.9%	423.299	\$41,393
St. Lucie County	321,126	100.0%	100.0%	100.0%	561.482	\$25,736
Sumter County	128,748	93.2%	100.0%	93.2%	235.400	\$33,629
Suwannee County	44,191	83.8%	100.0%	83.8%	64.180	\$21,755
Taylor County	21,623	66.2%	100.0%	66.2%	20.725	\$16,919
Union County	14,940	54.1%	100.0%	54.1%	61.341	\$15,475
Volusia County	547,535	100.0%	100.0%	100.0%	497.293	\$27,272
Wakulla County	32,461	92.7%	100.0%	92.7%	53.529	\$24,322
Walton County	71,371	79.8%	99.8%	79.6%	68.783	\$33,731
Washington County	24,877	36.8%	100.0%	36.8%	42.685	\$18,112
Georgia						
Appling County	18,507	51.1%	99.8%	51.1%	36.497	\$20,421
Atkinson County	8,297	63.0%	100.0%	63.0%	24.447	\$18,565
Bacon County	11,185	75.9%	100.0%	75.9%	43.256	\$19,634
Baker County	3,092	2.4%	100.0%	2.4%	9.042	\$22,864
Baldwin County	44,823	95.2%	100.0%	95.2%	173.838	\$20,305
Banks County	18,985	74.9%	100.0%	74.9%	81.800	\$20,810
Barrow County	80,807	98.6%	100.0%	98.6%	504.070	\$23,638
Bartow County	106,406	94.5%	100.0%	94.5%	231.547	\$25,712
Ben Hill County	16,787	90.7%	100.0%	90.7%	67.116	\$17,563
Berrien County	19,252	85.0%	100.0%	85.0%	42.603	\$18,611

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Bibb County	153,095	96.9%	100.0%	96.9%	612.964	\$24,409
Bleckley County	12,838	43.3%	100.0%	43.3%	59.471	\$18,519
Brantley County	18,897	99.5%	100.0%	99.5%	42.718	\$18,904
Brooks County	15,513	81.5%	100.0%	81.5%	31.464	\$23,421
Bryan County	38,109	96.0%	100.0%	96.0%	87.413	\$30,892
Bulloch County	77,295	100.0%	100.0%	100.0%	114.884	\$21,207
Burke County	22,423	71.8%	100.0%	71.8%	27.115	\$21,334
Butts County	24,193	78.9%	100.0%	78.9%	131.203	\$22,360
Calhoun County	6,352	41.7%	100.0%	41.7%	22.656	\$13,927
Camden County	53,676	95.5%	100.0%	95.5%	87.559	\$28,509
Candler County	10,836	100.0%	100.0%	100.0%	44.585	\$18,718
Carroll County	118,121	91.7%	100.0%	91.7%	236.679	\$24,155
Catoosa County	67,417	98.9%	100.0%	98.9%	415.745	\$26,915
Charlton County	12,968	63.8%	100.0%	63.8%	16.764	\$19,341
Chatham County	289,195	95.9%	100.0%	95.9%	678.166	\$30,664
Chattahoochee County	10,684	55.3%	100.0%	55.3%	42.953	\$23,651
Chattooga County	24,790	97.5%	99.4%	97.2%	79.116	\$18,209
Cherokee County	254,148	97.3%	100.0%	97.3%	602.713	\$35,199
Clarke County	127,328	99.4%	100.0%	99.4%	1,068.185	\$22,589
Clay County	2,887	63.8%	99.7%	63.8%	14.776	\$16,199
Clayton County	289,598	98.2%	100.0%	98.2%	2,045.619	\$20,419
Clinch County	6,648	57.5%	100.0%	57.5%	8.308	\$16,538
Cobb County	756,864	98.0%	100.0%	98.0%	2,229.026	\$38,268
Coffee County	43,093	90.8%	100.0%	90.8%	74.932	\$19,709
Colquitt County	45,592	89.5%	100.0%	89.5%	83.785	\$19,173
Columbia County	154,287	98.3%	100.0%	98.3%	531.859	\$32,509
Cook County	17,162	86.6%	100.0%	86.6%	75.550	\$19,778
Coweta County	145,857	96.4%	100.0%	96.4%	330.822	\$32,542
Crawford County	12,318	93.2%	100.0%	93.2%	37.915	\$21,102
Crisp County	22,601	81.2%	100.0%	81.2%	82.914	\$21,581
Dade County	16,226	92.3%	100.0%	92.3%	93.263	\$24,028
Dawson County	25,083	87.7%	100.0%	87.7%	118.973	\$32,646
DeKalb County	756,547	98.7%	100.0%	98.7%	2,827.347	\$34,100
Decatur County	26,575	68.9%	100.0%	68.9%	44.504	\$20,397
Dodge County	20,705	65.1%	100.0%	65.1%	41.753	\$18,921
Dooly County	13,706	67.3%	100.0%	67.3%	34.970	\$20,259
Dougherty County	91,239	96.6%	100.0%	96.6%	277.585	\$21,180
Douglas County	145,328	97.5%	100.0%	97.5%	726.397	\$26,621
Early County	10,247	41.5%	100.0%	41.5%	19.990	\$17,598
Echols County	4,000	0.0%	100.0%	0.0%	9.641	\$22,883
Effingham County	62,190	95.7%	100.0%	95.7%	130.186	\$29,795
Elbert County	19,120	83.2%	99.9%	83.2%	54.464	\$22,593

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Emanuel County	22,611	94.9%	100.0%	94.9%	33.222	\$17,981
Evans County	10,721	81.9%	100.0%	81.9%	58.632	\$20,537
Fannin County	25,963	90.4%	99.5%	90.0%	67.136	\$26,665
Fayette County	113,458	98.1%	100.0%	98.1%	583.805	\$42,126
Floyd County	97,926	94.3%	100.0%	94.3%	192.045	\$25,058
Forsyth County	236,606	99.0%	100.0%	99.0%	1,056.179	\$41,585
Franklin County	23,023	81.5%	100.0%	81.5%	88.043	\$21,686
Fulton County	1,050,071	98.4%	100.0%	98.4%	1,993.927	\$43,707
Gilmer County	30,814	81.5%	99.3%	80.8%	72.242	\$25,812
Glascocock County	2,995	1.0%	100.0%	1.0%	20.836	\$21,076
Glynn County	85,219	96.6%	99.9%	96.5%	203.022	\$31,493
Gordon County	57,684	89.5%	100.0%	89.5%	162.121	\$22,448
Grady County	24,748	84.5%	100.0%	84.5%	54.448	\$22,442
Greene County	17,698	68.7%	100.0%	68.7%	45.680	\$35,844
Gwinnett County	927,777	99.0%	100.0%	99.0%	2,155.700	\$29,474
Habersham County	45,384	92.1%	100.0%	92.1%	163.995	\$22,018
Hall County	202,141	97.8%	100.0%	97.8%	514.639	\$27,625
Hancock County	8,348	8.2%	99.9%	8.2%	17.692	\$16,713
Haralson County	29,533	100.0%	100.0%	100.0%	104.666	\$24,444
Harris County	34,475	87.3%	100.0%	87.3%	74.321	\$34,511
Hart County	26,098	95.3%	100.0%	95.3%	112.301	\$22,361
Heard County	11,879	58.8%	100.0%	58.8%	40.128	\$21,796
Henry County	230,206	99.5%	100.0%	99.5%	714.644	\$28,274
Houston County	155,459	97.7%	100.0%	97.7%	413.961	\$28,196
Irwin County	9,398	61.2%	100.0%	61.2%	26.522	\$18,406
Jackson County	70,417	91.6%	100.0%	91.6%	207.314	\$27,115
Jasper County	14,040	61.0%	100.0%	61.0%	38.135	\$19,999
Jeff Davis County	15,029	69.3%	100.0%	69.3%	45.441	\$18,042
Jefferson County	15,430	9.0%	100.0%	9.0%	29.308	\$18,764
Jenkins County	8,683	79.4%	100.0%	79.4%	25.003	\$16,089
Johnson County	9,708	30.2%	100.0%	30.2%	32.039	\$20,773
Jones County	28,616	85.8%	100.0%	85.8%	72.642	\$25,725
Lamar County	18,993	70.7%	100.0%	70.7%	103.504	\$20,874
Lanier County	10,340	85.5%	100.0%	85.5%	55.813	\$18,800
Laurens County	47,325	60.3%	100.0%	60.3%	58.622	\$20,655
Lee County	29,763	92.0%	100.0%	92.0%	83.655	\$28,612
Liberty County	61,495	94.2%	100.0%	94.2%	125.551	\$21,430
Lincoln County	7,915	100.0%	98.4%	98.4%	37.622	\$26,324
Long County	18,998	83.0%	100.0%	83.0%	47.460	\$21,695
Lowndes County	116,319	89.0%	100.0%	89.0%	234.483	\$23,077
Lumpkin County	32,955	84.5%	100.0%	84.5%	116.476	\$24,790
Macon County	13,143	68.3%	100.0%	68.3%	32.805	\$15,924

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Madison County	29,650	89.3%	100.0%	89.3%	105.026	\$24,292
Marion County	8,351	66.8%	100.0%	66.8%	22.817	\$22,478
McDuffie County	21,530	82.6%	100.0%	82.6%	83.624	\$21,384
McIntosh County	14,339	96.5%	100.0%	96.5%	33.795	\$27,030
Meriwether County	21,068	52.1%	100.0%	52.1%	42.033	\$20,060
Miller County	5,686	33.0%	100.0%	33.0%	20.133	\$21,746
Mitchell County	22,192	62.9%	100.0%	62.9%	43.337	\$17,514
Monroe County	27,518	53.6%	100.0%	53.6%	69.550	\$34,669
Montgomery County	9,193	39.4%	100.0%	39.4%	38.380	\$22,317
Morgan County	18,852	43.9%	100.0%	43.9%	54.274	\$30,587
Murray County	39,921	98.0%	99.9%	97.9%	115.892	\$20,618
Muscogee County	194,160	98.6%	100.0%	98.6%	897.288	\$25,318
Newton County	109,538	97.1%	100.0%	97.1%	402.475	\$24,426
Oconee County	39,271	90.8%	100.0%	90.8%	213.094	\$41,671
Oglethorpe County	15,053	76.9%	100.0%	76.9%	34.288	\$23,027
Paulding County	164,034	98.7%	100.0%	98.7%	525.381	\$27,855
Peach County	27,297	83.9%	100.0%	83.9%	181.656	\$22,767
Pickens County	31,979	90.4%	100.0%	90.4%	137.806	\$30,567
Pierce County	19,389	76.0%	100.0%	76.0%	61.262	\$22,236
Pike County	18,628	32.4%	100.0%	32.4%	86.207	\$26,737
Polk County	42,470	96.8%	100.0%	96.8%	136.854	\$23,233
Pulaski County	11,069	72.2%	100.0%	72.2%	44.448	\$19,389
Putnam County	21,809	88.3%	100.0%	88.3%	63.281	\$28,819
Quitman County	2,279	62.9%	100.0%	62.9%	15.069	\$19,371
Rabun County	16,867	90.3%	100.0%	90.3%	45.587	\$28,312
Randolph County	6,833	79.7%	99.4%	79.2%	15.956	\$19,356
Richmond County	201,554	96.0%	100.0%	96.0%	621.455	\$22,045
Rockdale County	90,594	98.5%	100.0%	98.5%	697.990	\$26,367
Schley County	5,236	77.1%	100.0%	77.1%	31.371	\$20,585
Screven County	13,938	98.9%	100.0%	98.9%	21.606	\$21,557
Seminole County	8,315	78.8%	100.0%	78.8%	35.349	\$26,358
Spalding County	66,092	95.3%	100.0%	95.3%	336.400	\$22,166
Stephens County	26,035	93.6%	100.0%	93.6%	145.340	\$21,839
Stewart County	6,197	55.2%	99.8%	55.2%	13.509	\$16,359
Sumter County	29,733	75.7%	100.0%	75.7%	61.598	\$20,191
Talbot County	6,272	81.7%	100.0%	81.7%	16.025	\$20,785
Taliaferro County	1,608	91.0%	100.0%	91.0%	8.263	\$19,897
Tattnall County	25,391	71.5%	100.0%	71.5%	52.964	\$17,553
Taylor County	8,039	84.7%	100.0%	84.7%	21.341	\$19,068
Telfair County	15,876	74.8%	100.0%	74.8%	36.304	\$15,200
Terrell County	8,611	76.4%	100.0%	76.4%	25.671	\$19,330
Thomas County	44,448	89.8%	100.0%	89.8%	81.617	\$25,542

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Tift County	40,571	87.0%	100.0%	87.0%	156.696	\$22,072
Toombs County	26,887	64.2%	100.0%	64.2%	73.864	\$23,416
Towns County	11,851	95.2%	99.6%	94.9%	71.150	\$23,940
Treutlen County	6,809	12.7%	100.0%	12.7%	34.141	\$23,907
Troup County	70,034	93.3%	100.0%	93.3%	169.169	\$22,348
Turner County	7,912	73.8%	100.0%	73.8%	27.723	\$18,787
Twiggs County	8,188	38.9%	100.0%	38.9%	22.846	\$19,465
Union County	24,000	93.6%	100.0%	93.5%	74.551	\$27,282
Upton County	26,215	92.9%	100.0%	92.9%	81.051	\$21,015
Walker County	69,410	95.6%	99.9%	95.5%	155.496	\$23,311
Walton County	93,502	89.3%	100.0%	89.3%	287.097	\$26,545
Ware County	35,680	86.6%	100.0%	86.6%	39.979	\$20,457
Warren County	5,251	0.0%	100.0%	0.0%	18.470	\$22,916
Washington County	20,386	67.1%	100.0%	67.1%	30.048	\$19,579
Wayne County	29,808	81.0%	100.0%	81.0%	46.446	\$21,067
Webster County	2,610	43.6%	99.8%	43.6%	12.481	\$21,586
Wheeler County	7,879	48.1%	100.0%	48.1%	26.665	\$12,292
White County	29,967	89.7%	100.0%	89.7%	124.506	\$25,617
Whitfield County	104,062	100.0%	100.0%	100.0%	358.262	\$23,271
Wilcox County	8,812	62.5%	100.0%	62.5%	23.330	\$14,829
Wilkes County	9,876	100.0%	100.0%	100.0%	21.036	\$23,198
Wilkinson County	9,036	60.1%	100.0%	60.1%	20.201	\$21,403
Worth County	20,299	70.6%	100.0%	70.6%	35.568	\$23,517
Hawaii						
Hawaii County	200,982	90.4%	99.8%	90.3%	49.891	\$29,253
Honolulu County	980,080	98.8%	99.9%	98.7%	1,631.446	\$35,202
Kalawao County	88	5.7%	100.0%	5.7%	7.339	\$47,709
Kauai County	72,133	91.3%	99.6%	91.3%	116.352	\$31,674
Maui County	167,207	93.2%	99.6%	93.0%	143.955	\$33,792
Idaho						
Ada County	469,895	96.2%	100.0%	96.2%	446.424	\$33,352
Adams County	4,250	46.4%	97.6%	46.1%	3.118	\$25,143
Bannock County	87,136	86.7%	100.0%	86.7%	78.361	\$24,555
Bear Lake County	6,050	24.4%	98.9%	24.4%	6.206	\$24,654
Benewah County	9,226	27.0%	82.7%	26.1%	11.880	\$23,502
Bingham County	46,231	71.6%	100.0%	71.6%	22.078	\$21,322
Blaine County	22,597	81.9%	98.2%	80.4%	8.548	\$32,861
Boise County	7,634	28.3%	81.5%	23.2%	4.020	\$30,660
Bonner County	44,725	99.8%	99.6%	99.4%	25.784	\$27,590
Bonneville County	116,836	94.2%	100.0%	94.2%	62.610	\$27,272
Boundary County	11,947	98.8%	94.6%	93.7%	9.418	\$25,401
Butte County	2,611	49.8%	98.4%	49.5%	1.170	\$25,941

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Camas County	1,127	0.0%	100.0%	0.0%	1.049	\$30,803
Canyon County	223,451	86.4%	100.0%	86.4%	380.426	\$20,807
Caribou County	7,060	47.3%	99.5%	47.3%	4.002	\$26,908
Cassia County	23,863	74.5%	99.9%	74.5%	9.303	\$21,547
Clark County	852	92.8%	98.9%	92.8%	0.483	\$16,181
Clearwater County	8,758	0.1%	80.9%	0.1%	3.564	\$22,844
Custer County	4,280	67.4%	91.4%	61.3%	0.870	\$24,545
Elmore County	27,259	75.5%	99.8%	75.5%	8.865	\$23,547
Franklin County	13,726	67.4%	99.4%	67.4%	20.683	\$22,367
Fremont County	13,168	75.1%	100.0%	75.1%	7.066	\$21,782
Gem County	17,633	77.9%	99.9%	77.9%	31.437	\$20,776
Gooding County	15,196	54.9%	100.0%	54.9%	20.846	\$22,542
Idaho County	16,513	29.3%	92.1%	29.3%	1.948	\$21,584
Jefferson County	29,409	66.6%	100.0%	66.6%	26.894	\$22,934
Jerome County	24,010	77.8%	100.0%	77.8%	40.205	\$20,820
Kootenai County	161,502	98.6%	99.6%	98.5%	129.812	\$29,429
Latah County	40,134	76.2%	99.0%	75.4%	37.299	\$25,623
Lemhi County	7,961	40.9%	94.4%	40.7%	1.745	\$23,042
Lewis County	3,861	47.7%	99.8%	47.7%	8.064	\$24,052
Lincoln County	5,360	31.2%	100.0%	31.2%	4.461	\$20,188
Madison County	39,304	81.4%	100.0%	81.4%	83.767	\$15,626
Minidoka County	20,824	68.4%	100.0%	68.4%	27.487	\$23,578
Nez Perce County	40,408	84.7%	99.1%	84.7%	47.646	\$27,753
Oneida County	4,488	81.4%	99.6%	81.1%	3.740	\$21,575
Owyhee County	11,692	45.8%	99.0%	45.8%	1.525	\$21,935
Payette County	23,550	85.2%	100.0%	85.2%	57.881	\$25,002
Power County	7,767	68.1%	100.0%	68.1%	5.531	\$22,199
Shoshone County	12,791	50.1%	95.3%	49.1%	4.864	\$24,204
Teton County	11,640	84.9%	100.0%	84.9%	25.898	\$30,554
Twin Falls County	86,077	82.0%	100.0%	82.0%	44.803	\$24,222
Valley County	11,041	50.6%	99.5%	50.6%	3.013	\$30,838
Washington County	10,161	67.1%	99.9%	67.0%	6.993	\$21,414
Illinois						
Adams County	65,691	89.1%	100.0%	89.1%	76.813	\$29,347
Alexander County	6,060	0.3%	99.8%	0.3%	25.731	\$19,065
Bond County	16,630	45.8%	100.0%	45.8%	43.731	\$26,356
Boone County	53,577	97.3%	100.0%	97.3%	190.856	\$30,725
Brown County	6,556	48.9%	100.0%	48.9%	21.452	\$22,279
Bureau County	32,993	84.9%	100.0%	84.9%	37.965	\$29,126
Calhoun County	4,802	39.2%	100.0%	39.2%	18.919	\$27,314
Carroll County	14,312	74.0%	100.0%	74.0%	32.176	\$28,053
Cass County	12,260	80.1%	100.0%	80.1%	32.622	\$26,245

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Champaign County	209,980	95.2%	100.0%	95.2%	210.767	\$29,683
Christian County	32,661	85.1%	100.0%	85.1%	46.042	\$26,166
Clark County	15,596	70.8%	100.0%	70.8%	31.104	\$29,887
Clay County	13,253	85.8%	100.0%	85.8%	28.299	\$25,821
Clinton County	37,639	71.9%	100.0%	71.9%	79.393	\$31,240
Coles County	50,885	84.9%	100.0%	84.9%	100.110	\$26,790
Cook County	5,180,493	99.2%	100.0%	99.2%	5,480.111	\$35,575
Crawford County	18,807	67.5%	100.0%	67.5%	42.394	\$26,713
Cumberland County	10,808	44.7%	100.0%	44.7%	31.235	\$25,622
De Witt County	15,769	83.6%	100.0%	83.6%	39.669	\$29,402
DeKalb County	104,143	94.7%	100.0%	94.7%	164.964	\$28,073
Douglas County	19,479	74.6%	100.0%	74.6%	46.750	\$27,871
DuPage County	928,589	99.3%	100.0%	99.3%	2,835.395	\$43,982
Edgar County	17,360	88.5%	100.0%	88.5%	27.848	\$27,701
Edwards County	6,392	66.3%	100.0%	66.3%	28.739	\$26,908
Effingham County	34,208	68.8%	100.0%	68.8%	71.449	\$30,255
Fayette County	21,416	21.8%	100.0%	21.8%	29.890	\$22,260
Ford County	13,264	79.8%	100.0%	79.8%	27.314	\$28,002
Franklin County	38,701	79.1%	100.0%	79.1%	94.649	\$23,510
Fulton County	34,844	71.6%	100.0%	71.6%	40.254	\$25,538
Gallatin County	5,058	68.2%	100.0%	68.2%	15.656	\$25,572
Greene County	13,044	77.3%	100.0%	77.3%	24.021	\$23,946
Grundy County	50,970	100.0%	100.0%	100.0%	121.925	\$33,308
Hamilton County	8,163	62.1%	100.0%	62.1%	18.780	\$27,795
Hancock County	17,844	76.4%	100.0%	76.4%	22.481	\$26,880
Hardin County	3,910	100.0%	99.5%	99.5%	22.025	\$25,795
Henderson County	6,709	41.1%	99.7%	40.8%	17.708	\$28,401
Henry County	49,090	86.9%	100.0%	86.9%	59.649	\$29,014
Iroquois County	27,604	54.4%	100.0%	54.4%	24.706	\$26,976
Jackson County	57,419	95.9%	100.0%	95.9%	98.307	\$24,521
Jasper County	9,609	31.4%	100.0%	31.4%	19.431	\$25,536
Jefferson County	37,820	59.2%	100.0%	59.2%	66.215	\$25,770
Jersey County	21,847	55.5%	99.9%	55.5%	59.162	\$28,924
Jo Daviess County	21,366	75.7%	100.0%	75.7%	35.546	\$32,710
Johnson County	12,456	26.8%	100.0%	26.8%	36.218	\$22,469
Kane County	534,216	98.9%	100.0%	98.9%	1,027.224	\$34,924
Kankakee County	110,021	96.2%	100.0%	96.2%	162.619	\$27,164
Kendall County	127,902	97.5%	100.0%	97.5%	399.275	\$34,423
Knox County	50,112	89.8%	100.0%	89.8%	69.950	\$24,681
LaSalle County	109,430	97.7%	100.0%	97.7%	96.404	\$29,093
Lake County	700,832	99.0%	100.0%	99.0%	1,579.625	\$44,287
Lawrence County	15,765	54.6%	100.0%	54.6%	42.359	\$22,099

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Lee County	34,223	79.6%	100.0%	79.6%	47.211	\$29,249
Livingston County	35,761	84.5%	100.0%	84.5%	34.244	\$28,236
Logan County	28,925	78.3%	100.0%	78.3%	46.800	\$27,187
Macon County	104,712	93.7%	100.0%	93.7%	180.324	\$28,925
Macoupin County	45,313	73.7%	100.0%	73.7%	52.512	\$28,050
Madison County	264,461	97.8%	100.0%	97.8%	369.575	\$30,802
Marion County	37,620	74.6%	100.0%	74.6%	65.728	\$24,727
Marshall County	11,534	76.8%	100.0%	76.8%	29.820	\$29,827
Mason County	13,565	64.7%	100.0%	64.7%	25.156	\$27,111
Massac County	14,080	60.6%	100.0%	60.6%	59.355	\$23,768
McDonough County	29,955	95.8%	100.0%	95.8%	50.822	\$23,299
McHenry County	308,570	99.5%	100.0%	99.5%	511.579	\$38,047
McLean County	172,822	94.4%	100.0%	94.4%	146.041	\$33,665
Menard County	12,288	55.8%	100.0%	55.8%	39.079	\$34,495
Mercer County	15,601	62.9%	100.0%	62.9%	27.799	\$28,995
Monroe County	34,334	97.0%	100.0%	97.0%	89.177	\$39,988
Montgomery County	28,601	70.4%	100.0%	70.4%	40.645	\$24,816
Morgan County	33,975	80.9%	100.0%	80.9%	59.732	\$26,295
Moultrie County	14,716	70.0%	100.0%	70.0%	43.805	\$28,391
Ogle County	50,923	87.8%	100.0%	87.8%	67.130	\$30,595
Peoria County	180,621	96.7%	100.0%	96.7%	291.696	\$30,753
Perry County	21,174	86.9%	100.0%	86.9%	47.931	\$24,511
Piatt County	16,396	82.0%	100.0%	82.0%	37.331	\$33,967
Pike County	15,611	76.2%	100.0%	76.2%	18.777	\$24,162
Pope County	4,212	77.0%	99.9%	76.9%	11.422	\$22,343
Pulaski County	5,463	30.4%	100.0%	30.4%	27.427	\$20,317
Putnam County	5,738	66.8%	100.0%	66.8%	35.827	\$34,144
Randolph County	32,106	86.5%	100.0%	86.5%	55.788	\$25,340
Richland County	15,763	73.6%	100.0%	73.6%	43.787	\$26,038
Rock Island County	143,477	96.9%	100.0%	96.9%	335.512	\$28,595
Saline County	23,906	76.2%	100.0%	76.2%	62.941	\$23,690
Sangamon County	195,348	95.6%	100.0%	95.6%	224.977	\$34,548
Schuyler County	6,907	56.3%	100.0%	56.3%	15.796	\$23,068
Scott County	4,926	84.0%	100.0%	84.0%	19.632	\$27,218
Shelby County	21,741	52.3%	100.0%	52.3%	28.662	\$25,320
St. Clair County	261,059	98.6%	100.0%	98.6%	396.891	\$29,541
Stark County	5,427	57.5%	100.0%	57.5%	18.839	\$30,225
Stephenson County	44,753	85.7%	100.0%	85.7%	79.276	\$27,453
Tazewell County	132,328	92.6%	100.0%	92.6%	203.903	\$33,077
Union County	16,841	68.0%	100.0%	68.0%	40.732	\$25,416
Vermilion County	76,806	90.4%	100.0%	90.4%	85.495	\$24,272
Wabash County	11,549	72.6%	100.0%	72.6%	51.731	\$26,850

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Warren County	17,032	70.4%	100.0%	70.4%	31.401	\$26,082
Washington County	13,995	47.5%	100.0%	47.5%	24.877	\$32,394
Wayne County	16,332	80.7%	100.0%	80.7%	22.880	\$26,362
White County	13,665	69.2%	100.0%	69.2%	27.619	\$25,859
Whiteside County	55,626	87.0%	100.0%	87.0%	81.295	\$29,167
Will County	692,310	99.2%	100.0%	99.2%	827.224	\$35,259
Williamson County	67,056	84.9%	100.0%	84.9%	159.600	\$26,756
Winnebago County	284,081	97.3%	100.0%	97.3%	553.373	\$28,250
Woodford County	38,463	86.1%	100.0%	86.1%	72.874	\$35,104
Indiana						
Adams County	35,632	98.6%	100.0%	98.6%	105.100	\$22,514
Allen County	375,329	98.7%	100.0%	98.7%	571.009	\$28,239
Bartholomew County	82,746	92.6%	100.0%	92.6%	203.353	\$30,515
Benton County	8,652	86.8%	100.0%	86.8%	21.288	\$23,322
Blackford County	11,930	100.0%	100.0%	100.0%	72.268	\$24,663
Boone County	66,988	94.3%	100.0%	94.3%	158.397	\$44,712
Brown County	15,234	58.2%	100.0%	58.2%	48.830	\$33,617
Carroll County	20,125	62.1%	100.0%	62.1%	54.067	\$28,430
Cass County	37,955	83.8%	100.0%	83.8%	92.089	\$23,918
Clark County	117,358	96.4%	100.0%	96.4%	314.755	\$28,525
Clay County	26,170	76.8%	100.0%	76.8%	73.194	\$25,290
Clinton County	32,250	91.8%	100.0%	91.8%	79.616	\$24,276
Crawford County	10,558	0.1%	99.6%	0.1%	34.544	\$21,021
Daviess County	33,147	97.3%	100.0%	97.3%	77.178	\$22,548
DeKalb County	43,220	97.9%	100.0%	97.9%	119.121	\$27,036
Dearborn County	49,568	94.1%	100.0%	94.1%	162.500	\$29,891
Decatur County	26,794	68.2%	100.0%	68.2%	71.917	\$26,515
Delaware County	114,772	100.0%	100.0%	100.0%	292.693	\$24,234
Dubois County	42,565	70.9%	100.0%	70.9%	99.621	\$28,932
Elkhart County	205,558	97.5%	100.0%	97.5%	443.806	\$25,075
Fayette County	23,047	100.0%	100.0%	100.0%	107.188	\$23,627
Floyd County	77,772	99.1%	100.0%	99.1%	525.718	\$32,299
Fountain County	16,351	80.7%	100.0%	80.7%	41.326	\$26,721
Franklin County	22,735	59.8%	100.0%	59.8%	59.140	\$27,557
Fulton County	20,091	100.0%	100.0%	100.0%	54.538	\$25,106
Gibson County	33,452	71.3%	100.0%	71.3%	68.621	\$27,137
Grant County	65,936	92.7%	100.0%	92.7%	159.237	\$21,739
Greene County	32,006	80.0%	100.0%	80.0%	58.998	\$24,309
Hamilton County	330,034	99.9%	100.0%	99.9%	837.082	\$46,597
Hancock County	76,319	99.5%	100.0%	99.5%	249.395	\$32,730
Harrison County	40,346	95.7%	100.0%	95.7%	83.271	\$27,211
Hendricks County	166,981	98.1%	100.0%	98.1%	410.362	\$34,689

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Henry County	48,271	98.2%	100.0%	98.2%	123.179	\$23,851
Howard County	82,366	95.9%	100.0%	95.9%	281.058	\$27,297
Huntington County	36,240	90.6%	100.0%	90.6%	94.708	\$25,386
Jackson County	44,109	94.4%	100.0%	94.4%	86.605	\$24,522
Jasper County	33,370	83.8%	100.0%	83.8%	59.629	\$26,415
Jay County	20,764	92.8%	100.0%	92.8%	54.086	\$22,470
Jefferson County	32,206	79.3%	100.0%	79.3%	89.305	\$26,060
Jennings County	27,611	76.7%	100.0%	76.7%	73.320	\$23,490
Johnson County	156,216	97.2%	100.0%	97.2%	487.524	\$32,475
Knox County	36,895	86.0%	100.0%	86.0%	71.498	\$24,581
Kosciusko County	79,343	97.6%	100.0%	97.6%	149.315	\$28,740
LaGrange County	39,330	55.7%	100.0%	55.7%	103.602	\$23,626
LaPorte County	110,007	99.6%	100.0%	99.6%	183.866	\$25,865
Lake County	484,411	99.8%	100.0%	99.8%	970.839	\$27,660
Lawrence County	45,668	79.8%	100.0%	79.8%	101.672	\$25,590
Madison County	129,640	100.0%	100.0%	100.0%	286.868	\$24,625
Marion County	954,647	99.9%	100.0%	99.9%	2,408.910	\$27,251
Marshall County	46,248	99.5%	100.0%	99.5%	104.249	\$25,537
Martin County	10,217	70.6%	100.0%	70.6%	30.432	\$25,676
Miami County	35,567	75.6%	100.0%	75.6%	95.139	\$22,871
Monroe County	146,917	94.2%	100.0%	94.2%	372.405	\$27,461
Montgomery County	38,346	75.8%	100.0%	75.8%	75.991	\$26,184
Morgan County	70,115	87.2%	100.0%	87.2%	173.565	\$28,633
Newton County	14,011	95.5%	100.0%	95.5%	34.874	\$25,366
Noble County	47,531	74.9%	100.0%	74.9%	115.691	\$26,063
Ohio County	5,844	79.0%	99.8%	79.0%	67.843	\$29,368
Orange County	19,489	77.2%	100.0%	77.2%	48.920	\$23,317
Owen County	20,845	78.8%	100.0%	78.8%	54.102	\$24,129
Parke County	16,926	72.9%	100.0%	72.9%	38.065	\$23,052
Perry County	19,102	82.1%	99.9%	82.0%	50.041	\$24,540
Pike County	12,408	57.9%	100.0%	57.9%	37.123	\$26,584
Porter County	169,589	100.0%	100.0%	100.0%	405.567	\$32,943
Posey County	25,540	68.9%	100.0%	68.9%	62.358	\$30,572
Pulaski County	12,469	71.8%	100.0%	71.8%	28.754	\$24,695
Putnam County	37,778	73.9%	100.0%	73.9%	78.618	\$24,627
Randolph County	24,851	99.9%	100.0%	99.9%	54.934	\$23,539
Ripley County	28,523	59.6%	100.0%	59.6%	63.892	\$27,423
Rush County	16,663	98.8%	100.0%	98.8%	40.828	\$24,900
Scott County	23,878	100.0%	100.0%	100.0%	125.411	\$22,688
Shelby County	44,589	81.7%	100.0%	81.7%	108.450	\$28,491
Spencer County	20,327	49.4%	100.0%	49.4%	51.235	\$29,999
St. Joseph County	270,764	99.4%	100.0%	99.4%	591.381	\$27,338

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Starke County	22,935	94.6%	100.0%	94.6%	74.191	\$23,282
Steuben County	34,586	84.7%	100.0%	84.7%	111.951	\$28,429
Sullivan County	20,690	57.0%	100.0%	57.0%	46.272	\$22,976
Switzerland County	10,717	36.6%	100.0%	36.6%	48.574	\$23,347
Tippecanoe County	193,032	96.6%	100.0%	96.6%	386.214	\$26,262
Tipton County	15,128	100.0%	100.0%	100.0%	58.064	\$30,026
Union County	7,037	99.7%	100.0%	99.7%	43.647	\$24,040
Vanderburgh County	180,974	98.7%	100.0%	98.7%	775.132	\$28,320
Vermillion County	15,479	95.8%	100.0%	95.8%	60.258	\$25,143
Vigo County	107,386	94.2%	100.0%	94.2%	266.260	\$24,254
Wabash County	31,280	95.7%	100.0%	95.7%	75.842	\$25,228
Warren County	8,263	59.0%	100.0%	59.0%	22.658	\$29,408
Warrick County	62,567	82.4%	100.0%	82.4%	162.590	\$35,915
Washington County	27,943	99.8%	100.0%	99.8%	54.393	\$24,048
Wayne County	65,936	100.0%	100.0%	100.0%	164.126	\$25,460
Wells County	28,198	88.3%	100.0%	88.3%	76.607	\$27,106
White County	24,133	90.8%	100.0%	90.8%	47.776	\$27,621
Whitley County	34,064	78.0%	100.0%	78.0%	101.511	\$30,144
Iowa						
Adair County	7,063	84.9%	100.0%	84.9%	12.407	\$29,984
Adams County	3,645	60.6%	100.0%	60.6%	8.608	\$27,824
Allamakee County	13,832	80.6%	95.4%	77.6%	21.644	\$27,741
Appanoose County	12,437	95.3%	99.0%	95.0%	25.009	\$27,546
Audubon County	5,506	75.4%	100.0%	75.4%	12.430	\$28,957
Benton County	25,642	81.4%	100.0%	81.4%	35.800	\$32,764
Black Hawk County	132,408	99.6%	100.0%	99.6%	234.032	\$29,100
Boone County	26,346	97.6%	100.0%	97.6%	46.094	\$31,686
Bremer County	24,947	97.1%	100.0%	97.1%	57.287	\$32,512
Buchanan County	21,199	82.0%	100.0%	82.0%	37.125	\$31,495
Buena Vista County	19,874	99.3%	100.0%	99.3%	34.569	\$26,607
Butler County	14,539	94.0%	100.0%	94.0%	25.062	\$29,654
Calhoun County	9,699	78.5%	100.0%	78.5%	17.017	\$27,908
Carroll County	20,154	86.1%	100.0%	86.1%	35.393	\$30,658
Cass County	12,930	93.6%	100.0%	93.6%	22.915	\$27,853
Cedar County	18,624	92.1%	100.0%	92.1%	32.142	\$32,010
Cerro Gordo County	42,647	98.9%	100.0%	98.9%	75.041	\$31,304
Cherokee County	11,321	93.5%	100.0%	93.5%	19.624	\$32,667
Chickasaw County	11,964	89.4%	100.0%	89.4%	23.720	\$29,752
Clarke County	9,420	82.6%	100.0%	82.6%	21.848	\$26,706
Clay County	16,134	97.5%	100.0%	97.5%	28.443	\$27,811
Clayton County	17,556	75.4%	96.6%	73.8%	22.550	\$28,486
Clinton County	46,518	95.6%	100.0%	95.6%	66.941	\$27,942

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Crawford County	17,157	67.3%	100.0%	67.3%	24.023	\$28,700
Dallas County	90,147	97.1%	100.0%	97.1%	153.195	\$43,583
Davis County	9,016	81.0%	97.2%	79.2%	17.953	\$26,503
Decatur County	7,890	85.5%	100.0%	85.5%	14.834	\$22,037
Delaware County	17,069	94.4%	99.8%	94.3%	29.544	\$31,300
Des Moines County	39,138	95.1%	100.0%	95.1%	94.054	\$28,234
Dickinson County	17,153	98.4%	100.0%	98.4%	45.068	\$38,031
Dubuque County	96,854	98.6%	100.0%	98.6%	159.220	\$31,096
Emmet County	9,253	93.0%	100.0%	93.0%	23.373	\$30,386
Fayette County	19,660	82.3%	99.5%	82.0%	26.902	\$28,069
Floyd County	15,761	97.9%	100.0%	97.9%	31.482	\$27,897
Franklin County	10,124	94.6%	100.0%	94.6%	17.396	\$27,480
Fremont County	6,992	73.5%	100.0%	73.5%	13.679	\$29,625
Greene County	8,981	96.7%	100.0%	96.7%	15.768	\$28,413
Grundy County	12,304	98.3%	100.0%	98.3%	24.517	\$35,443
Guthrie County	10,719	90.6%	100.0%	90.6%	18.149	\$28,953
Hamilton County	14,952	95.9%	100.0%	95.9%	25.925	\$28,706
Hancock County	10,712	89.7%	100.0%	89.7%	18.760	\$29,537
Hardin County	16,868	94.0%	100.0%	94.0%	29.629	\$28,539
Harrison County	14,134	75.5%	100.0%	75.5%	20.283	\$30,209
Henry County	20,064	92.5%	99.8%	92.4%	46.196	\$26,760
Howard County	9,187	77.4%	99.9%	77.4%	19.413	\$28,828
Humboldt County	9,547	78.5%	100.0%	78.5%	21.980	\$29,882
Ida County	6,841	94.6%	100.0%	94.6%	15.854	\$32,562
Iowa County	16,140	80.8%	100.0%	80.8%	27.521	\$32,663
Jackson County	19,432	92.3%	100.0%	92.2%	30.552	\$29,207
Jasper County	37,143	88.5%	100.0%	88.5%	50.852	\$27,551
Jefferson County	18,381	100.0%	100.0%	100.0%	42.206	\$26,064
Johnson County	151,236	94.6%	100.0%	94.6%	246.297	\$34,310
Jones County	20,738	93.0%	100.0%	93.0%	36.027	\$28,879
Keokuk County	10,221	74.8%	99.9%	74.8%	17.647	\$28,630
Kossuth County	14,908	79.1%	100.0%	79.1%	15.326	\$29,963
Lee County	34,055	94.4%	99.7%	94.2%	65.804	\$25,968
Linn County	225,896	97.5%	100.0%	97.5%	315.110	\$34,289
Louisa County	11,169	85.9%	100.0%	85.9%	27.800	\$27,041
Lucas County	8,641	73.8%	98.9%	73.1%	20.068	\$28,900
Lyon County	11,811	94.5%	100.0%	94.5%	20.099	\$29,246
Madison County	16,247	97.9%	100.0%	97.9%	28.960	\$33,069
Mahaska County	22,000	81.5%	100.0%	81.5%	38.538	\$27,061
Marion County	33,404	88.4%	99.8%	88.4%	60.238	\$28,832
Marshall County	39,981	91.8%	100.0%	91.8%	69.836	\$26,516
Mills County	15,063	99.1%	100.0%	99.1%	34.435	\$32,867

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Mitchell County	10,569	91.3%	100.0%	91.3%	22.529	\$28,898
Monona County	8,679	79.2%	100.0%	79.2%	12.504	\$27,862
Monroe County	7,790	92.1%	99.1%	91.4%	17.961	\$26,469
Montgomery County	10,003	90.2%	100.0%	90.2%	23.587	\$28,780
Muscatine County	42,929	95.2%	100.0%	95.2%	98.130	\$28,137
O'Brien County	13,840	100.0%	100.0%	100.0%	24.152	\$29,901
Osceola County	6,040	96.3%	100.0%	96.3%	15.150	\$28,843
Page County	15,248	88.7%	100.0%	88.7%	28.504	\$26,767
Palo Alto County	8,929	88.5%	100.0%	88.5%	15.836	\$28,843
Plymouth County	25,095	95.5%	100.0%	95.5%	29.082	\$32,028
Pocahontas County	6,740	81.6%	100.0%	81.6%	11.676	\$27,984
Polk County	487,186	97.1%	100.0%	97.1%	849.060	\$34,474
Pottawattamie County	93,529	90.2%	100.0%	90.2%	98.423	\$29,729
Poweshiek County	18,692	73.0%	100.0%	73.0%	31.956	\$30,711
Ringgold County	4,968	58.3%	100.0%	58.3%	9.277	\$29,759
Sac County	9,719	69.9%	100.0%	69.9%	16.902	\$30,750
Scott County	173,281	96.6%	100.0%	96.6%	378.270	\$31,873
Shelby County	11,578	94.4%	100.0%	94.4%	19.598	\$31,283
Sioux County	34,909	96.2%	100.0%	96.2%	45.435	\$28,467
Story County	98,095	93.3%	100.0%	93.3%	171.250	\$28,034
Tama County	16,904	81.3%	100.0%	81.3%	23.445	\$27,255
Taylor County	6,191	67.9%	100.0%	67.9%	11.639	\$27,672
Union County	12,359	88.4%	100.0%	88.4%	29.173	\$26,216
Van Buren County	7,020	73.9%	99.2%	73.3%	14.481	\$27,468
Wapello County	35,204	88.7%	99.7%	88.6%	81.522	\$24,864
Warren County	51,045	93.1%	100.0%	93.1%	89.580	\$34,570
Washington County	22,141	90.6%	100.0%	90.6%	38.923	\$29,857
Wayne County	6,401	86.1%	100.0%	86.1%	12.182	\$25,560
Webster County	36,277	95.2%	100.0%	95.2%	50.693	\$25,243
Winnebago County	10,518	100.0%	100.0%	100.0%	26.263	\$27,117
Winneshiek County	20,029	64.1%	99.0%	64.0%	29.033	\$30,706
Woodbury County	102,538	96.6%	100.0%	96.6%	117.477	\$27,430
Worth County	7,453	96.6%	100.0%	96.6%	18.627	\$29,482
Wright County	12,690	89.4%	100.0%	89.4%	21.863	\$28,317
Kansas						
Allen County	12,444	100.0%	100.0%	100.0%	24.873	\$23,454
Anderson County	7,878	100.0%	100.0%	100.0%	13.591	\$23,210
Atchison County	16,193	83.1%	100.0%	83.1%	37.556	\$24,224
Barber County	4,472	85.5%	100.0%	85.5%	3.943	\$28,984
Barton County	26,111	91.8%	100.0%	91.8%	29.161	\$27,133
Bourbon County	14,653	100.0%	100.0%	100.0%	23.058	\$22,822

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Brown County	9,598	75.2%	100.0%	75.2%	16.813	\$25,306
Butler County	66,765	75.2%	100.0%	75.2%	46.693	\$28,759
Chase County	2,629	13.1%	100.0%	13.1%	3.401	\$25,105
Chautauqua County	3,309	18.9%	99.8%	18.9%	5.179	\$24,496
Cherokee County	20,015	89.9%	100.0%	89.9%	34.064	\$21,635
Cheyenne County	2,660	49.9%	100.0%	49.9%	2.608	\$28,467
Clark County	2,005	43.5%	100.0%	43.5%	2.057	\$27,896
Clay County	7,995	92.1%	100.0%	92.1%	12.390	\$32,110
Cloud County	8,729	92.9%	100.0%	92.9%	12.203	\$26,515
Coffey County	8,233	99.3%	100.0%	99.3%	13.132	\$32,112
Comanche County	1,748	57.4%	100.0%	57.4%	2.217	\$30,171
Cowley County	35,218	84.7%	100.0%	84.6%	31.284	\$23,778
Crawford County	39,019	100.0%	100.0%	100.0%	66.161	\$22,461
Decatur County	2,871	17.0%	100.0%	17.0%	3.213	\$30,208
Dickinson County	18,717	75.7%	100.0%	75.7%	22.096	\$26,201
Doniphan County	7,682	86.1%	100.0%	86.1%	19.527	\$25,297
Douglas County	121,432	100.0%	100.0%	100.0%	266.374	\$30,315
Edwards County	2,849	70.3%	100.0%	70.3%	4.581	\$27,309
Elk County	2,508	74.8%	100.0%	74.8%	3.893	\$22,437
Ellis County	28,710	99.4%	100.0%	99.4%	31.903	\$29,810
Ellsworth County	6,196	65.6%	100.0%	65.6%	8.655	\$25,161
Finney County	36,611	99.3%	100.0%	99.3%	28.120	\$23,637
Ford County	33,888	82.1%	100.0%	82.1%	30.856	\$23,348
Franklin County	25,631	100.0%	100.0%	100.0%	44.829	\$26,757
Geary County	32,594	84.0%	100.0%	84.0%	84.744	\$22,797
Gove County	2,612	71.6%	100.0%	71.6%	2.437	\$28,247
Graham County	2,492	98.6%	100.0%	98.6%	2.773	\$26,685
Grant County	7,336	100.0%	100.0%	100.0%	12.763	\$25,788
Gray County	6,031	59.2%	100.0%	59.2%	6.941	\$28,878
Greeley County	1,227	91.9%	100.0%	91.9%	1.576	\$23,668
Greenwood County	6,055	74.1%	100.0%	74.1%	5.296	\$27,639
Hamilton County	2,607	100.0%	100.0%	100.0%	2.616	\$20,723
Harper County	5,506	59.6%	100.0%	59.6%	6.872	\$26,105
Harvey County	34,210	84.9%	100.0%	84.9%	63.381	\$27,305
Haskell County	3,997	98.4%	100.0%	98.4%	6.921	\$25,417
Hodgeman County	1,818	40.8%	100.0%	40.8%	2.114	\$28,514
Jackson County	13,280	92.8%	100.0%	92.8%	20.237	\$27,950
Jefferson County	18,975	97.3%	100.0%	97.3%	35.629	\$29,258
Jewell County	2,841	89.5%	100.0%	89.5%	3.123	\$26,908

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Johnson County	597,516	100.0%	100.0%	100.0%	1,262.248	\$44,986
Kearny County	3,943	100.0%	100.0%	100.0%	4.529	\$23,593
Kingman County	7,310	56.5%	100.0%	56.5%	8.467	\$33,203
Kiowa County	2,514	76.5%	100.0%	76.5%	3.479	\$25,623
Labette County	19,964	67.3%	100.0%	67.3%	30.938	\$23,524
Lane County	1,560	98.0%	100.0%	98.0%	2.174	\$28,366
Leavenworth County	81,351	95.5%	100.0%	95.5%	175.768	\$31,639
Lincoln County	3,023	68.1%	100.0%	68.1%	4.202	\$25,851
Linn County	9,750	100.0%	100.0%	100.0%	16.413	\$25,771
Logan County	2,844	89.4%	100.0%	89.4%	2.651	\$27,883
Lyon County	33,406	99.0%	100.0%	99.0%	39.418	\$26,322
Marion County	11,950	88.1%	100.0%	88.1%	12.655	\$25,756
Marshall County	9,722	74.0%	100.0%	74.0%	10.800	\$27,167
McPherson County	28,537	79.1%	100.0%	79.1%	31.769	\$30,234
Meade County	4,146	0.1%	100.0%	0.1%	4.239	\$27,273
Miami County	33,676	100.0%	100.0%	100.0%	58.500	\$33,349
Mitchell County	6,148	96.4%	100.0%	96.4%	8.760	\$24,732
Montgomery County	32,120	90.7%	100.0%	90.7%	49.912	\$24,103
Morris County	5,520	97.5%	100.0%	97.5%	7.939	\$27,499
Morton County	2,667	100.0%	100.0%	100.0%	3.655	\$23,370
Nemaha County	10,153	64.2%	100.0%	64.2%	14.152	\$29,687
Neosho County	15,951	97.6%	100.0%	97.6%	27.912	\$23,934
Ness County	2,840	82.3%	100.0%	82.3%	2.642	\$31,912
Norton County	5,430	74.5%	100.0%	74.5%	6.184	\$26,953
Osage County	15,937	100.0%	100.0%	100.0%	22.589	\$27,026
Osborne County	3,475	98.0%	100.0%	98.0%	3.894	\$28,748
Ottawa County	5,802	53.6%	100.0%	53.6%	8.050	\$27,610
Pawnee County	6,562	72.6%	100.0%	72.6%	8.700	\$22,925
Phillips County	5,317	75.4%	100.0%	75.4%	6.002	\$27,140
Pottawatomie County	24,274	95.8%	100.0%	95.8%	28.863	\$28,070
Pratt County	9,378	79.7%	100.0%	79.7%	12.758	\$27,050
Rawlins County	2,508	46.4%	100.0%	46.4%	2.345	\$27,840
Reno County	62,342	85.9%	100.0%	85.9%	49.661	\$26,190
Republic County	4,664	68.9%	100.0%	68.9%	6.502	\$28,901
Rice County	9,531	78.5%	100.0%	78.5%	13.124	\$23,971
Riley County	73,703	87.4%	100.0%	87.4%	120.870	\$26,883
Rooks County	5,013	87.0%	100.0%	87.0%	5.629	\$25,072
Rush County	3,093	79.9%	100.0%	79.9%	4.309	\$25,590
Russell County	6,907	99.4%	100.0%	99.4%	7.793	\$26,300

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Saline County	54,401	87.4%	100.0%	87.4%	75.533	\$27,737
Scott County	4,897	100.0%	100.0%	100.0%	6.825	\$31,132
Sedgwick County	513,607	94.7%	100.0%	94.7%	514.888	\$28,673
Seward County	21,780	59.2%	100.0%	59.2%	34.058	\$20,352
Shawnee County	177,499	100.0%	100.0%	100.0%	326.275	\$29,979
Sheridan County	2,533	76.6%	100.0%	76.6%	2.827	\$31,526
Sherman County	5,899	85.4%	100.0%	85.4%	5.586	\$23,687
Smith County	3,603	87.4%	100.0%	87.4%	4.024	\$28,598
Stafford County	4,178	19.1%	100.0%	19.1%	5.275	\$26,922
Stanton County	1,987	100.0%	100.0%	100.0%	2.921	\$23,542
Stevens County	5,559	98.7%	100.0%	98.7%	7.643	\$24,359
Sumner County	22,996	44.5%	100.0%	44.5%	19.456	\$26,328
Thomas County	7,711	90.1%	100.0%	90.1%	7.175	\$27,127
Trego County	2,793	83.6%	100.0%	83.6%	3.140	\$33,555
Wabaunsee County	6,899	73.5%	100.0%	73.5%	8.686	\$28,104
Wallace County	1,503	47.4%	100.0%	47.4%	1.645	\$28,938
Washington County	5,420	65.2%	100.0%	65.2%	6.058	\$27,718
Wichita County	2,105	95.2%	100.0%	95.2%	2.929	\$29,762
Wilson County	8,665	100.0%	100.0%	100.0%	15.191	\$26,523
Woodson County	3,183	91.4%	100.0%	91.4%	6.394	\$21,123
Wyandotte County	165,323	99.7%	100.0%	99.7%	1,090.521	\$21,298
Kentucky						
Adair County	19,215	77.2%	98.3%	76.2%	47.411	\$20,166
Allen County	21,122	98.9%	98.9%	97.8%	61.341	\$21,262
Anderson County	22,660	100.0%	100.0%	100.0%	112.272	\$26,339
Ballard County	7,979	80.7%	100.0%	80.7%	32.348	\$25,571
Barren County	44,176	84.0%	99.7%	83.8%	90.610	\$20,832
Bath County	12,383	85.1%	100.0%	85.1%	44.417	\$21,175
Bell County	26,569	98.5%	99.7%	98.4%	74.008	\$15,279
Boone County	131,529	99.2%	100.0%	99.2%	533.891	\$34,433
Bourbon County	20,182	97.6%	100.0%	97.6%	69.661	\$27,477
Boyd County	47,240	96.3%	99.2%	95.8%	295.501	\$25,467
Boyle County	30,099	98.9%	99.9%	98.8%	167.060	\$24,933
Bracken County	8,239	86.4%	100.0%	86.4%	40.071	\$23,480
Breathitt County	12,726	65.3%	82.4%	59.3%	25.844	\$17,729
Breckinridge County	20,388	78.9%	100.0%	78.9%	35.947	\$22,521
Bullitt County	81,069	99.4%	100.0%	99.4%	272.938	\$27,423
Butler County	12,772	54.2%	99.9%	54.2%	29.975	\$22,597
Caldwell County	12,715	76.2%	100.0%	76.2%	36.877	\$28,500

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Calloway County	39,133	98.3%	100.0%	98.3%	101.639	\$22,489
Campbell County	93,152	99.4%	100.0%	99.4%	615.644	\$32,225
Carlisle County	4,771	94.2%	100.0%	94.2%	25.186	\$24,943
Carroll County	10,737	74.7%	100.0%	74.7%	83.511	\$23,546
Carter County	27,004	80.0%	95.4%	76.7%	65.944	\$17,782
Casey County	15,887	92.9%	96.3%	89.6%	35.763	\$18,285
Christian County	71,669	88.4%	99.8%	88.4%	99.887	\$21,770
Clark County	36,249	83.4%	100.0%	83.4%	143.581	\$27,416
Clay County	20,105	95.6%	95.6%	91.7%	42.845	\$15,063
Clinton County	10,206	93.0%	100.0%	93.0%	51.743	\$20,235
Crittenden County	8,915	67.3%	100.0%	67.3%	24.767	\$24,011
Cumberland County	6,659	70.6%	98.5%	70.6%	21.820	\$17,926
Daviess County	101,101	93.3%	100.0%	93.3%	220.578	\$27,462
Edmonson County	12,274	92.0%	97.2%	89.2%	40.524	\$21,459
Elliott County	7,508	100.0%	48.4%	48.4%	32.042	\$14,461
Estill County	14,198	96.9%	99.5%	96.5%	56.101	\$17,658
Fayette County	323,776	99.6%	100.0%	99.6%	1,141.466	\$32,965
Fleming County	14,432	83.0%	100.0%	83.0%	41.407	\$23,482
Floyd County	35,845	95.9%	96.2%	92.2%	91.129	\$18,462
Franklin County	50,815	100.0%	100.0%	100.0%	244.601	\$28,801
Fulton County	6,120	61.4%	100.0%	61.4%	29.780	\$19,043
Gallatin County	8,832	79.6%	100.0%	79.6%	87.243	\$23,043
Garrard County	17,560	90.1%	100.0%	90.1%	76.322	\$25,751
Grant County	25,119	94.2%	100.0%	94.2%	97.374	\$22,073
Graves County	37,317	95.2%	100.0%	95.2%	67.635	\$23,189
Grayson County	26,321	90.8%	100.0%	90.8%	52.992	\$20,721
Green County	11,049	86.4%	99.2%	85.8%	38.628	\$24,098
Greenup County	35,268	93.8%	98.6%	93.1%	102.405	\$26,712
Hancock County	8,758	21.2%	100.0%	21.2%	46.671	\$23,523
Hardin County	110,356	100.0%	100.0%	100.0%	177.057	\$27,666
Harlan County	26,409	88.7%	89.1%	80.4%	56.693	\$15,834
Harrison County	18,778	100.0%	100.0%	100.0%	61.293	\$23,851
Hart County	18,904	91.6%	100.0%	91.6%	45.874	\$20,421
Henderson County	45,591	94.6%	100.0%	94.6%	104.406	\$25,376
Henry County	16,106	91.4%	100.0%	91.4%	56.260	\$24,519
Hickman County	4,421	35.2%	100.0%	35.2%	18.248	\$24,432
Hopkins County	45,068	86.2%	100.0%	86.2%	83.152	\$24,190
Jackson County	13,442	100.0%	95.6%	95.6%	38.940	\$17,692
Jefferson County	770,517	100.0%	100.0%	100.0%	2,025.457	\$31,980

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Jessamine County	53,915	98.0%	100.0%	98.0%	313.249	\$30,215
Johnson County	22,386	86.5%	97.9%	84.5%	85.458	\$21,089
Kenton County	166,050	99.5%	100.0%	99.5%	1,036.195	\$31,811
Knott County	15,126	96.5%	93.8%	91.8%	43.031	\$18,201
Knox County	31,304	86.4%	99.9%	86.3%	81.036	\$17,498
Larue County	14,305	85.9%	99.8%	85.8%	54.700	\$21,939
Laurel County	60,666	98.4%	100.0%	98.4%	139.799	\$21,039
Lawrence County	15,571	100.0%	83.9%	83.9%	37.467	\$18,199
Lee County	7,032	46.3%	99.1%	45.4%	33.669	\$17,179
Leslie County	10,143	59.3%	88.1%	51.3%	25.304	\$15,691
Letcher County	21,899	94.6%	98.6%	93.7%	64.806	\$18,811
Lewis County	13,257	76.6%	95.8%	73.8%	27.457	\$20,059
Lincoln County	24,643	87.5%	100.0%	87.5%	73.761	\$20,212
Livingston County	9,242	74.4%	100.0%	74.4%	29.515	\$27,338
Logan County	26,989	70.0%	100.0%	70.0%	48.881	\$23,177
Lyon County	8,009	28.9%	100.0%	28.9%	37.453	\$26,621
Madison County	92,368	95.6%	100.0%	95.6%	211.227	\$24,553
Magoffin County	12,362	100.0%	93.9%	93.9%	40.079	\$18,233
Marion County	19,404	89.1%	98.2%	88.4%	56.570	\$21,659
Marshall County	31,191	98.1%	100.0%	98.1%	103.538	\$27,994
Martin County	11,323	87.3%	99.2%	86.5%	49.315	\$15,492
Mason County	17,150	89.3%	100.0%	89.3%	71.420	\$25,658
McCracken County	65,346	97.8%	100.0%	97.8%	262.704	\$31,850
McCreary County	17,408	100.0%	98.8%	98.8%	40.787	\$12,903
McLean County	9,252	49.4%	100.0%	49.4%	36.645	\$24,557
Meade County	28,715	100.0%	99.7%	99.7%	94.017	\$28,078
Menifee County	6,451	100.0%	100.0%	100.0%	31.687	\$19,825
Mercer County	21,771	88.5%	100.0%	88.5%	87.505	\$25,745
Metcalfe County	10,030	80.5%	98.1%	79.0%	34.629	\$19,436
Monroe County	10,718	87.6%	93.9%	83.9%	32.541	\$23,025
Montgomery County	28,202	92.7%	100.0%	92.7%	142.892	\$21,877
Morgan County	13,345	100.0%	93.2%	93.2%	35.015	\$17,307
Muhlenberg County	30,774	80.3%	100.0%	80.3%	65.886	\$21,521
Nelson County	45,851	74.4%	100.0%	74.4%	109.820	\$31,387
Nicholas County	7,166	58.2%	100.0%	58.2%	36.717	\$22,472
Ohio County	24,087	56.6%	100.0%	56.6%	41.015	\$24,231
Oldham County	66,470	98.5%	100.0%	98.5%	355.040	\$40,779
Owen County	10,879	74.5%	100.0%	74.5%	30.985	\$23,045
Owsley County	4,472	100.0%	96.8%	96.8%	22.654	\$17,766

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Pendleton County	14,529	78.0%	100.0%	78.0%	52.422	\$22,620
Perry County	26,092	89.0%	89.5%	80.7%	76.816	\$20,140
Pike County	58,402	82.4%	99.2%	81.8%	74.224	\$21,646
Powell County	12,442	44.7%	100.0%	44.7%	69.516	\$20,397
Pulaski County	64,623	97.5%	100.0%	97.5%	98.150	\$22,342
Robertson County	2,135	48.9%	100.0%	48.9%	21.369	\$23,467
Rockcastle County	16,750	94.1%	100.0%	94.1%	52.915	\$19,913
Rowan County	24,583	98.3%	98.4%	96.8%	87.861	\$19,692
Russell County	17,821	87.7%	100.0%	87.7%	70.256	\$19,149
Scott County	56,027	99.0%	100.0%	99.0%	198.842	\$31,505
Shelby County	48,518	100.0%	100.0%	100.0%	127.801	\$30,932
Simpson County	18,528	66.1%	100.0%	66.1%	79.111	\$23,991
Spencer County	18,793	100.0%	100.0%	100.0%	100.671	\$33,568
Taylor County	25,548	91.4%	99.4%	91.0%	95.927	\$20,966
Todd County	12,311	57.7%	99.9%	57.7%	32.874	\$23,188
Trigg County	14,643	77.4%	99.9%	77.4%	33.171	\$26,893
Trimble County	8,515	82.1%	100.0%	82.1%	56.150	\$26,089
Union County	14,505	81.1%	100.0%	81.1%	42.307	\$22,027
Warren County	131,264	93.1%	100.0%	93.1%	242.363	\$27,322
Washington County	12,084	79.9%	100.0%	79.9%	40.650	\$24,570
Wayne County	20,468	90.8%	95.3%	87.7%	44.673	\$19,130
Webster County	13,111	63.0%	100.0%	63.0%	39.498	\$21,880
Whitley County	36,242	96.4%	100.0%	96.3%	82.776	\$19,145
Wolfe County	7,177	100.0%	100.0%	100.0%	32.304	\$14,113
Woodford County	26,533	98.7%	100.0%	98.7%	140.547	\$31,259
Louisiana						
Acadia Parish	62,190	71.5%	100.0%	71.5%	94.929	\$22,784
Allen Parish	25,605	27.3%	100.0%	27.3%	33.609	\$20,203
Ascension Parish	124,672	98.7%	100.0%	98.7%	429.932	\$32,961
Assumption Parish	22,300	98.8%	100.0%	98.8%	65.848	\$26,238
Avoyelles Parish	40,462	10.1%	100.0%	10.1%	48.607	\$21,390
Beauregard Parish	37,252	49.8%	100.0%	49.8%	32.188	\$26,075
Bienville Parish	13,308	3.1%	100.0%	3.1%	16.404	\$20,866
Bossier Parish	127,185	90.7%	100.0%	90.7%	151.400	\$27,924
Caddo Parish	242,922	96.0%	100.0%	96.0%	276.507	\$25,902
Calcasieu Parish	203,112	92.1%	100.0%	92.1%	190.956	\$27,368
Caldwell Parish	9,960	52.3%	99.8%	52.3%	18.813	\$20,574
Cameron Parish	6,967	13.7%	99.5%	13.7%	5.422	\$29,000
Catahoula Parish	9,608	1.0%	100.0%	1.0%	13.570	\$21,962

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Claiborne Parish	15,944	39.0%	100.0%	39.0%	21.121	\$16,948
Concordia Parish	19,572	24.6%	100.0%	24.6%	28.084	\$19,172
De Soto Parish	27,436	70.9%	100.0%	70.9%	31.335	\$24,796
East Baton Rouge Parish	440,956	100.0%	100.0%	100.0%	968.339	\$31,073
East Carroll Parish	7,037	62.8%	100.0%	62.8%	16.727	\$17,698
East Feliciana Parish	19,305	17.8%	100.0%	17.8%	42.577	\$20,927
Evangeline Parish	33,443	39.7%	100.0%	39.7%	50.489	\$18,344
Franklin Parish	20,156	30.7%	100.0%	30.7%	32.271	\$19,785
Grant Parish	22,482	38.0%	100.0%	38.0%	34.963	\$18,082
Iberia Parish	70,941	95.8%	100.0%	95.8%	123.567	\$23,156
Iberville Parish	32,721	85.1%	100.0%	85.1%	52.893	\$23,179
Jackson Parish	15,902	59.5%	100.0%	59.5%	27.938	\$20,942
Jefferson Davis Parish	31,581	76.0%	100.0%	76.0%	48.487	\$24,582
Jefferson Parish	434,051	98.0%	100.0%	98.0%	1,468.215	\$29,776
LaSalle Parish	14,917	1.8%	100.0%	1.8%	23.879	\$20,427
Lafayette Parish	242,782	97.3%	100.0%	97.3%	903.477	\$30,988
Lafourche Parish	98,115	89.7%	100.0%	89.7%	91.850	\$27,375
Lincoln Parish	47,196	82.3%	100.0%	82.3%	100.046	\$22,498
Livingston Parish	139,567	98.5%	100.0%	98.5%	215.325	\$28,995
Madison Parish	11,161	67.8%	100.0%	67.8%	17.874	\$15,795
Morehouse Parish	25,398	91.4%	100.0%	91.4%	31.950	\$19,399
Natchitoches Parish	38,659	70.0%	100.0%	70.0%	30.872	\$18,570
Orleans Parish	391,006	92.4%	100.0%	92.4%	2,307.869	\$30,177
Ouachita Parish	154,475	96.7%	100.0%	96.7%	253.069	\$23,663
Plaquemines Parish	23,410	71.3%	100.0%	71.3%	30.016	\$26,818
Pointe Coupee Parish	21,940	84.1%	100.0%	84.1%	39.365	\$26,663
Rapides Parish	130,562	89.2%	100.0%	89.2%	99.064	\$24,478
Red River Parish	8,477	29.5%	100.0%	29.5%	21.787	\$22,626
Richland Parish	20,192	49.9%	100.0%	49.9%	36.119	\$20,128
Sabine Parish	24,032	6.2%	100.0%	6.2%	27.729	\$22,637
St. Bernard Parish	46,721	93.5%	100.0%	93.5%	123.759	\$21,217
St. Charles Parish	52,879	97.4%	100.0%	97.4%	189.474	\$31,567
St. Helena Parish	10,262	24.6%	100.0%	24.6%	25.127	\$23,224
St. James Parish	21,037	99.5%	100.0%	99.5%	87.096	\$25,830
St. John the Baptist Parish	43,184	100.0%	100.0%	100.0%	202.674	\$25,942
St. Landry Parish	82,764	81.9%	100.0%	81.9%	89.583	\$19,647
St. Martin Parish	53,621	93.7%	100.0%	93.7%	72.692	\$24,732
St. Mary Parish	49,774	90.5%	100.0%	90.5%	89.622	\$22,364
St. Tammany Parish	258,109	98.6%	100.0%	98.6%	305.255	\$34,201

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Tangipahoa Parish	133,775	88.6%	100.0%	88.6%	169.063	\$24,004
Tensas Parish	4,462	0.5%	100.0%	0.5%	7.402	\$14,569
Terrebonne Parish	111,021	99.6%	100.0%	99.6%	90.128	\$24,921
Union Parish	22,330	34.4%	100.0%	34.4%	25.462	\$22,979
Vermilion Parish	59,830	96.2%	100.0%	96.2%	50.997	\$24,546
Vernon Parish	48,860	70.1%	100.0%	70.1%	36.795	\$23,763
Washington Parish	46,582	37.4%	100.0%	37.4%	69.575	\$18,971
Webster Parish	38,798	76.9%	100.0%	76.9%	65.423	\$18,701
West Baton Rouge Parish	26,427	88.6%	100.0%	88.6%	137.359	\$28,482
West Carroll Parish	10,982	27.6%	100.0%	27.6%	30.536	\$22,922
West Feliciana Parish	15,460	36.1%	100.0%	36.1%	38.342	\$23,565
Winn Parish	14,134	46.2%	99.5%	46.2%	14.877	\$20,162
Maine						
Androscoggin County	107,679	99.8%	100.0%	99.8%	230.119	\$27,231
Aroostook County	67,111	89.3%	91.1%	81.4%	10.060	\$24,571
Cumberland County	293,557	99.7%	99.8%	99.5%	351.464	\$38,644
Franklin County	29,897	90.7%	98.6%	89.7%	17.622	\$26,030
Hancock County	54,811	90.1%	99.7%	89.8%	34.540	\$32,491
Kennebec County	122,083	99.5%	100.0%	99.5%	140.726	\$29,084
Knox County	39,771	97.8%	99.7%	97.6%	108.922	\$31,612
Lincoln County	34,342	96.2%	99.9%	96.0%	75.341	\$32,400
Oxford County	57,618	88.7%	99.6%	88.6%	27.743	\$23,770
Penobscot County	151,096	92.5%	99.5%	92.5%	44.475	\$27,289
Piscataquis County	16,800	78.2%	98.2%	77.1%	4.242	\$24,062
Sagadahoc County	35,634	97.3%	100.0%	97.3%	140.460	\$34,432
Somerset County	50,592	90.6%	97.1%	88.9%	12.892	\$23,557
Waldo County	39,694	76.8%	100.0%	76.8%	54.381	\$28,860
Washington County	31,490	87.7%	97.8%	85.7%	12.288	\$24,647
York County	206,227	98.8%	99.9%	98.7%	208.160	\$35,052
Maryland						
Allegany County	70,975	89.5%	100.0%	89.5%	167.332	\$23,280
Anne Arundel County	576,031	97.5%	99.9%	97.3%	1,388.355	\$44,979
Baltimore County	828,431	98.1%	100.0%	98.1%	1,384.637	\$38,580
Baltimore city	602,495	98.7%	100.0%	98.7%	7,443.382	\$29,700
Calvert County	92,003	97.8%	100.0%	97.8%	431.631	\$43,504
Caroline County	33,303	91.5%	100.0%	91.5%	104.261	\$27,866
Carroll County	168,429	97.3%	100.0%	97.3%	376.298	\$40,667
Cecil County	102,826	96.7%	100.0%	96.7%	296.951	\$32,976
Charles County	161,503	92.3%	100.0%	92.3%	352.820	\$39,696

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Dorchester County	31,998	83.9%	99.7%	83.5%	59.172	\$30,135
Frederick County	255,648	99.7%	100.0%	99.7%	387.216	\$41,432
Garrett County	29,163	79.1%	100.0%	79.1%	45.067	\$27,980
Harford County	253,954	98.2%	100.0%	98.2%	581.012	\$39,365
Howard County	323,196	96.4%	100.0%	96.4%	1,288.963	\$52,586
Kent County	19,383	97.2%	100.0%	97.2%	69.967	\$34,910
Montgomery County	1,052,567	98.8%	100.0%	98.8%	2,142.611	\$52,828
Prince George's County	909,308	96.9%	100.0%	96.9%	1,883.831	\$35,869
Queen Anne's County	50,247	98.5%	99.0%	97.4%	135.106	\$42,077
Somerset County	25,675	98.5%	99.9%	98.4%	80.304	\$18,924
St. Mary's County	112,664	96.3%	99.8%	96.1%	315.426	\$39,254
Talbot County	36,968	86.9%	99.8%	86.8%	137.664	\$47,302
Washington County	150,926	98.6%	100.0%	98.6%	329.691	\$29,802
Wicomico County	103,194	98.4%	100.0%	98.4%	275.593	\$27,622
Worcester County	51,823	99.7%	99.2%	98.8%	110.667	\$35,666
Massachusetts						
Barnstable County	213,413	98.6%	99.9%	98.5%	542.038	\$42,578
Berkshire County	126,348	93.4%	100.0%	93.4%	136.323	\$34,287
Bristol County	564,020	98.4%	100.0%	98.4%	1,019.751	\$34,226
Dukes County	17,352	92.5%	100.0%	92.5%	168.066	\$43,822
Essex County	790,633	98.9%	99.9%	98.8%	1,605.141	\$40,697
Franklin County	70,963	83.6%	100.0%	83.6%	101.474	\$34,202
Hampden County	470,404	98.0%	100.0%	98.0%	762.232	\$29,020
Hampshire County	161,355	87.0%	100.0%	87.0%	306.028	\$33,605
Middlesex County	1,614,706	98.6%	100.0%	98.6%	1,974.411	\$49,669
Nantucket County	11,327	98.9%	100.0%	98.9%	251.880	\$51,270
Norfolk County	705,380	97.8%	99.9%	97.7%	1,780.788	\$52,036
Plymouth County	518,131	97.9%	100.0%	97.9%	786.149	\$41,343
Suffolk County	807,229	98.8%	99.9%	98.7%	13,880.818	\$40,190
Worcester County	830,837	98.6%	100.0%	98.6%	549.943	\$36,169
Michigan						
Alcona County	10,362	66.6%	100.0%	66.6%	15.361	\$25,219
Alger County	9,097	79.1%	97.7%	77.3%	9.941	\$21,773
Allegan County	117,322	90.6%	100.0%	90.6%	142.169	\$28,073
Alpena County	28,360	91.9%	100.0%	91.9%	49.593	\$25,115
Antrim County	23,365	99.7%	100.0%	99.7%	49.117	\$30,920
Arenac County	15,041	85.7%	99.6%	85.3%	41.413	\$23,374
Baraga County	8,320	62.5%	99.4%	62.5%	9.262	\$20,698
Barry County	61,147	83.7%	100.0%	83.7%	110.555	\$28,783

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Bay County	103,923	94.4%	99.9%	94.3%	234.959	\$26,644
Benzie County	17,752	86.4%	100.0%	86.4%	55.526	\$27,866
Berrien County	154,141	95.9%	100.0%	95.9%	271.496	\$29,311
Branch County	43,618	70.8%	100.0%	70.8%	86.139	\$24,249
Calhoun County	134,483	89.3%	100.0%	89.3%	190.423	\$25,652
Cass County	51,652	97.9%	100.0%	97.9%	105.399	\$29,923
Charlevoix County	26,240	92.9%	100.0%	92.9%	63.026	\$32,559
Cheboygan County	25,413	62.6%	99.9%	62.6%	35.530	\$25,876
Chippewa County	37,517	75.1%	99.9%	75.1%	24.074	\$23,310
Clare County	30,757	82.8%	100.0%	82.8%	54.503	\$21,717
Clinton County	79,316	97.1%	100.0%	97.1%	140.033	\$33,568
Crawford County	13,901	59.2%	100.0%	59.2%	24.989	\$24,884
Delta County	35,857	84.1%	99.6%	84.1%	30.618	\$26,852
Dickinson County	25,383	73.0%	99.8%	73.0%	33.337	\$28,020
Eaton County	109,814	97.4%	100.0%	97.4%	190.923	\$31,982
Emmet County	33,308	93.7%	100.0%	93.7%	71.248	\$32,455
Genesee County	406,892	98.9%	100.0%	98.9%	638.786	\$26,386
Gladwin County	25,337	72.5%	100.0%	72.5%	50.494	\$24,594
Gogebic County	15,096	80.1%	99.9%	80.1%	13.701	\$24,325
Grand Traverse County	92,569	97.3%	100.0%	97.3%	199.360	\$33,754
Gratiot County	40,599	100.0%	100.0%	100.0%	71.419	\$22,027
Hillsdale County	45,749	73.1%	100.0%	73.1%	76.486	\$24,749
Houghton County	36,219	86.4%	100.0%	86.4%	35.892	\$22,866
Huron County	31,166	85.0%	99.7%	84.8%	37.293	\$27,130
Ingham County	292,725	98.3%	100.0%	98.3%	526.370	\$28,366
Ionia County	64,210	99.8%	100.0%	99.8%	112.392	\$23,956
Iosco County	25,081	93.8%	99.3%	93.1%	45.677	\$25,075
Iron County	11,117	19.1%	99.6%	19.1%	9.533	\$24,876
Isabella County	70,562	99.6%	100.0%	99.6%	123.214	\$23,164
Jackson County	158,821	89.0%	100.0%	89.0%	226.348	\$26,942
Kalamazoo County	264,862	98.6%	100.0%	98.6%	471.571	\$30,555
Kalkaska County	17,818	83.6%	100.0%	83.6%	31.826	\$23,687
Kent County	653,762	100.0%	100.0%	100.0%	771.904	\$31,005
Keweenaw County	2,113	74.9%	87.7%	67.6%	3.912	\$31,830
Lake County	11,881	27.7%	100.0%	27.7%	20.940	\$19,012
Lapeer County	88,028	77.8%	100.0%	77.8%	136.899	\$28,309
Leelanau County	21,763	93.5%	99.8%	93.3%	62.687	\$38,074
Lenawee County	98,266	89.7%	100.0%	89.7%	131.099	\$26,958
Livingston County	191,212	99.0%	100.0%	99.0%	338.276	\$38,399

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Luce County	6,283	1.5%	99.4%	1.5%	6.988	\$20,745
Mackinac County	10,785	44.6%	100.0%	44.6%	10.557	\$28,941
Macomb County	874,742	98.5%	100.0%	98.5%	1,825.332	\$31,104
Manistee County	24,528	73.3%	99.7%	73.0%	45.242	\$25,778
Marquette County	66,516	90.7%	99.9%	90.7%	36.782	\$26,290
Mason County	29,100	99.6%	100.0%	99.6%	58.779	\$28,812
Mecosta County	43,543	99.9%	100.0%	99.9%	78.446	\$23,182
Menominee County	22,983	64.3%	99.7%	64.3%	22.013	\$27,609
Midland County	83,209	95.9%	100.0%	95.9%	161.179	\$34,497
Missaukee County	15,113	47.6%	100.0%	47.6%	26.762	\$22,850
Monroe County	150,429	95.0%	100.0%	94.9%	273.809	\$30,295
Montcalm County	63,963	99.9%	100.0%	99.9%	90.676	\$23,018
Montmorency County	9,264	14.3%	100.0%	14.3%	16.946	\$23,930
Muskegon County	173,588	98.6%	100.0%	98.6%	347.700	\$24,101
Newaygo County	48,856	84.6%	100.0%	84.6%	60.078	\$24,005
Oakland County	1,259,152	99.4%	100.0%	99.4%	1,451.199	\$42,760
Oceana County	26,625	74.6%	100.0%	74.6%	51.995	\$23,018
Ogemaw County	20,952	73.2%	100.0%	73.2%	37.183	\$22,527
Ontonagon County	5,795	65.3%	98.4%	64.6%	4.420	\$23,850
Osceola County	23,338	96.0%	100.0%	96.0%	41.205	\$22,142
Oscoda County	8,276	3.9%	100.0%	3.9%	14.629	\$23,526
Otsego County	24,665	85.2%	100.0%	85.2%	47.896	\$26,829
Ottawa County	290,454	100.0%	100.0%	100.0%	515.476	\$30,558
Presque Isle County	12,738	36.2%	100.0%	36.2%	19.338	\$26,503
Roscommon County	23,884	93.4%	100.0%	93.4%	45.963	\$23,862
Saginaw County	190,800	95.7%	100.0%	95.7%	238.466	\$26,625
Sanilac County	41,182	26.9%	100.0%	26.9%	42.784	\$24,835
Schoolcraft County	8,068	57.2%	98.7%	57.2%	6.888	\$22,931
Shiawassee County	68,192	94.2%	100.0%	94.2%	128.502	\$27,398
St. Clair County	159,337	81.0%	99.6%	80.6%	220.942	\$29,356
St. Joseph County	61,043	85.5%	100.0%	85.5%	121.942	\$25,136
Tuscola County	52,516	68.8%	100.0%	68.8%	65.389	\$24,968
Van Buren County	75,448	82.3%	100.0%	82.3%	124.199	\$26,771
Washtenaw County	370,948	96.8%	100.0%	96.8%	525.448	\$39,486
Wayne County	1,753,893	99.2%	100.0%	99.2%	2,865.463	\$25,976
Wexford County	33,463	67.9%	100.0%	67.9%	59.226	\$22,760
Minnesota						
Aitkin County	15,902	75.7%	100.0%	75.7%	8.729	\$27,646
Anoka County	353,803	98.2%	100.0%	98.2%	836.395	\$35,806

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Becker County	34,370	93.0%	100.0%	93.0%	26.133	\$29,710
Beltrami County	46,842	99.2%	99.5%	98.7%	18.700	\$24,781
Benton County	40,544	91.4%	100.0%	91.4%	99.299	\$28,566
Big Stone County	4,989	91.2%	100.0%	91.2%	9.998	\$30,489
Blue Earth County	67,417	97.6%	100.0%	97.6%	90.149	\$28,824
Brown County	25,111	87.3%	100.0%	87.3%	41.092	\$30,373
Carlton County	35,837	85.6%	100.0%	85.6%	41.604	\$28,117
Carver County	103,536	98.3%	100.0%	98.3%	292.206	\$45,637
Cass County	29,517	86.0%	100.0%	86.0%	14.601	\$29,053
Chippewa County	11,924	100.0%	100.0%	100.0%	20.519	\$30,168
Chisago County	55,921	94.4%	100.0%	94.4%	134.794	\$33,927
Clay County	63,951	93.2%	100.0%	93.2%	61.176	\$29,631
Clearwater County	8,810	100.0%	99.4%	99.4%	8.819	\$26,173
Cook County	5,393	91.3%	93.0%	85.3%	3.713	\$32,703
Cottonwood County	11,277	100.0%	100.0%	100.0%	17.659	\$27,209
Crow Wing County	64,886	96.0%	100.0%	96.0%	64.945	\$30,900
Dakota County	425,419	98.6%	100.0%	98.6%	756.748	\$40,441
Dodge County	20,821	100.0%	100.0%	100.0%	47.398	\$32,795
Douglas County	37,958	99.1%	100.0%	99.1%	59.561	\$34,547
Faribault County	13,758	83.1%	100.0%	83.1%	19.310	\$29,748
Fillmore County	21,057	81.9%	99.3%	81.3%	24.448	\$29,440
Freeborn County	30,444	100.0%	100.0%	100.0%	43.056	\$28,459
Goodhue County	46,403	95.4%	100.0%	95.4%	61.312	\$33,400
Grant County	6,019	96.5%	100.0%	96.5%	10.980	\$31,940
Hennepin County	1,259,416	99.0%	100.0%	99.0%	2,274.994	\$43,976
Houston County	18,578	84.9%	98.8%	84.3%	33.652	\$31,453
Hubbard County	21,328	97.5%	100.0%	97.5%	23.040	\$29,312
Isanti County	39,964	77.6%	100.0%	77.6%	91.704	\$32,008
Itasca County	45,108	91.8%	100.0%	91.8%	16.909	\$28,636
Jackson County	9,911	100.0%	100.0%	100.0%	14.099	\$33,358
Kanabec County	16,205	72.4%	100.0%	72.4%	31.069	\$27,331
Kandiyohi County	42,854	100.0%	100.0%	100.0%	53.784	\$30,217
Kittson County	4,248	51.4%	99.7%	51.4%	3.866	\$29,946
Koochiching County	12,440	88.2%	100.0%	88.2%	4.008	\$29,051
Lac qui Parle County	6,658	99.4%	100.0%	99.4%	8.703	\$31,686
Lake County	10,658	91.6%	99.6%	91.2%	5.053	\$33,602
Lake of the Woods County	3,758	60.7%	99.1%	60.5%	2.896	\$26,526
Le Sueur County	28,483	98.3%	100.0%	98.3%	63.470	\$32,120
Lincoln County	5,673	99.5%	100.0%	99.5%	10.569	\$28,504

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Lyon County	25,629	99.8%	100.0%	99.8%	35.867	\$30,531
Mahnomen County	5,519	92.0%	100.0%	92.0%	9.893	\$20,953
Marshall County	9,390	60.7%	100.0%	60.7%	5.290	\$29,670
Martin County	19,785	91.6%	100.0%	91.6%	27.774	\$31,091
McLeod County	35,873	99.2%	100.0%	99.2%	72.991	\$31,723
Meeker County	23,141	94.1%	100.0%	94.1%	38.050	\$31,819
Mille Lacs County	26,135	85.1%	100.0%	85.1%	45.666	\$26,679
Morrison County	33,167	83.2%	100.0%	83.2%	29.480	\$28,792
Mower County	40,001	97.3%	100.0%	97.3%	56.234	\$29,116
Murray County	8,276	99.9%	100.0%	99.9%	11.744	\$31,768
Nicollet County	34,219	92.5%	100.0%	92.5%	76.298	\$31,225
Nobles County	21,924	99.8%	100.0%	99.8%	30.658	\$25,554
Norman County	6,475	91.3%	100.0%	91.3%	7.419	\$28,351
Olmsted County	156,268	99.2%	100.0%	99.2%	239.180	\$39,667
Otter Tail County	58,807	98.3%	100.0%	98.3%	29.820	\$30,846
Pennington County	14,178	97.9%	100.0%	97.9%	22.995	\$30,625
Pine County	29,483	71.7%	100.0%	71.7%	20.891	\$25,302
Pipestone County	9,047	99.6%	100.0%	99.6%	19.454	\$29,716
Polk County	31,529	93.6%	100.0%	93.6%	15.995	\$28,856
Pope County	11,094	92.8%	100.0%	92.8%	16.565	\$32,943
Ramsey County	550,188	98.7%	100.0%	98.7%	3,614.607	\$34,049
Red Lake County	3,999	100.0%	100.0%	100.0%	9.248	\$29,731
Redwood County	15,249	100.0%	100.0%	100.0%	17.357	\$28,011
Renville County	14,612	100.0%	100.0%	100.0%	14.866	\$31,585
Rice County	66,512	98.6%	100.0%	98.6%	134.182	\$29,767
Rock County	9,414	100.0%	100.0%	100.0%	19.513	\$30,544
Roseau County	15,150	68.8%	99.8%	68.8%	9.063	\$28,049
Scott County	147,378	95.3%	100.0%	95.3%	413.430	\$39,952
Sherburne County	96,004	92.8%	100.0%	92.8%	221.761	\$34,013
Sibley County	15,023	98.5%	100.0%	98.5%	25.516	\$30,977
St. Louis County	199,754	90.2%	99.9%	90.2%	31.974	\$30,321
Stearns County	159,250	92.5%	100.0%	92.5%	118.566	\$29,815
Steele County	36,803	100.0%	100.0%	100.0%	85.659	\$30,822
Stevens County	9,750	97.6%	100.0%	97.6%	17.299	\$31,694
Swift County	9,345	99.8%	100.0%	99.8%	12.593	\$30,208
Todd County	24,581	66.6%	100.0%	66.6%	26.012	\$25,848
Traverse County	3,308	75.5%	100.0%	75.5%	5.764	\$30,553
Wabasha County	21,645	100.0%	99.9%	99.9%	41.388	\$33,664
Wadena County	13,771	95.0%	100.0%	95.0%	25.679	\$24,864

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Waseca County	18,691	100.0%	100.0%	100.0%	44.150	\$28,067
Washington County	259,186	97.9%	100.0%	97.9%	674.468	\$43,789
Watonwan County	10,976	99.2%	100.0%	99.2%	25.235	\$27,772
Wilkin County	6,254	98.8%	100.0%	98.8%	8.328	\$32,066
Winona County	50,825	100.0%	99.7%	99.7%	81.163	\$28,689
Wright County	136,346	93.3%	100.0%	93.3%	206.130	\$34,325
Yellow Medicine County	9,795	100.0%	100.0%	100.0%	12.903	\$29,379
Mississippi						
Adams County	31,192	86.3%	100.0%	86.3%	67.456	\$17,851
Alcorn County	36,925	76.1%	100.0%	76.1%	92.304	\$21,321
Amite County	12,326	23.7%	100.0%	23.7%	16.883	\$20,380
Attala County	18,365	52.9%	100.0%	52.9%	24.987	\$20,936
Benton County	8,271	44.0%	100.0%	44.0%	20.341	\$20,363
Bolivar County	31,333	80.2%	100.0%	80.2%	35.745	\$17,713
Calhoun County	14,436	81.6%	100.0%	81.6%	24.611	\$19,099
Carroll County	9,911	36.1%	100.0%	36.1%	15.776	\$22,567
Chickasaw County	17,170	56.4%	100.0%	56.4%	34.218	\$19,556
Choctaw County	8,278	27.7%	100.0%	27.7%	19.795	\$20,589
Claiborne County	9,002	58.3%	100.0%	58.3%	18.469	\$13,503
Clarke County	15,604	55.1%	99.6%	55.1%	22.564	\$22,422
Clay County	19,386	65.6%	100.0%	65.6%	47.274	\$21,076
Coahoma County	22,628	75.1%	100.0%	75.1%	40.960	\$17,518
Copiah County	28,543	53.5%	100.0%	53.5%	36.723	\$19,434
Covington County	18,853	32.1%	100.0%	32.1%	45.562	\$18,353
DeSoto County	181,989	96.3%	100.0%	96.3%	382.213	\$29,190
Forrest County	75,036	87.9%	100.0%	87.9%	160.913	\$22,042
Franklin County	7,788	28.5%	100.0%	28.5%	13.814	\$22,769
George County	24,250	77.7%	100.0%	77.7%	50.657	\$21,105
Greene County	13,586	25.2%	100.0%	25.2%	19.061	\$17,453
Grenada County	21,055	83.8%	100.0%	83.8%	49.881	\$21,668
Hancock County	47,334	87.9%	100.0%	87.9%	99.914	\$26,659
Harrison County	206,650	95.8%	100.0%	95.8%	360.021	\$24,445
Hinds County	237,085	93.0%	100.0%	93.0%	272.593	\$23,114
Holmes County	17,622	64.9%	99.9%	64.9%	23.288	\$13,924
Humphreys County	8,257	92.8%	100.0%	92.8%	19.730	\$16,604
Issaquena County	1,308	3.2%	100.0%	3.2%	3.167	\$18,942
Itawamba County	23,517	69.4%	100.0%	69.4%	44.140	\$20,629
Jackson County	143,270	96.0%	100.0%	96.0%	198.228	\$25,341
Jasper County	16,428	67.5%	100.0%	67.5%	24.293	\$21,929

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Jefferson County	7,106	56.0%	100.0%	56.0%	13.667	\$13,374
Jefferson Davis County	11,234	61.9%	99.6%	61.9%	27.504	\$19,233
Jones County	68,461	81.4%	100.0%	81.4%	98.534	\$22,836
Kemper County	10,026	10.9%	100.0%	10.9%	13.086	\$15,518
Lafayette County	54,791	83.7%	100.0%	83.7%	86.735	\$26,154
Lamar County	62,442	73.9%	100.0%	73.9%	125.624	\$28,934
Lauderdale County	75,317	87.7%	100.0%	87.7%	107.040	\$23,741
Lawrence County	12,455	28.1%	100.0%	28.1%	28.920	\$21,809
Leake County	22,762	52.0%	100.0%	52.0%	39.043	\$17,960
Lee County	85,200	89.4%	100.0%	89.4%	189.354	\$25,467
Leflore County	28,919	88.8%	100.0%	88.8%	48.805	\$16,861
Lincoln County	34,205	67.0%	100.0%	67.0%	58.359	\$21,892
Lowndes County	58,930	88.9%	100.0%	88.9%	116.576	\$24,499
Madison County	105,628	92.5%	100.0%	92.5%	147.834	\$38,496
Marion County	24,715	29.4%	100.0%	29.4%	45.567	\$18,687
Marshall County	35,451	67.2%	100.0%	67.2%	50.200	\$21,352
Monroe County	35,564	69.5%	100.0%	69.5%	46.483	\$23,158
Montgomery County	10,023	76.7%	100.0%	76.7%	24.628	\$22,913
Neshoba County	29,125	62.8%	100.0%	62.8%	51.084	\$19,641
Newton County	21,442	42.1%	100.0%	42.1%	37.090	\$21,600
Noxubee County	10,535	43.0%	100.0%	43.0%	15.155	\$17,637
Oktibbeha County	49,599	80.9%	100.0%	80.9%	108.247	\$22,136
Panola County	34,175	72.1%	100.0%	72.1%	49.880	\$19,972
Pearl River County	55,387	81.9%	100.0%	81.9%	68.306	\$23,135
Perry County	11,931	22.9%	99.3%	22.9%	18.433	\$21,611
Pike County	39,563	72.1%	100.0%	72.1%	96.728	\$17,954
Pontotoc County	31,833	56.0%	100.0%	56.0%	63.962	\$20,401
Prentiss County	25,315	66.7%	100.0%	66.7%	61.003	\$19,693
Quitman County	7,051	61.2%	100.0%	61.2%	17.409	\$15,353
Rankin County	153,899	93.9%	100.0%	93.9%	198.455	\$29,874
Scott County	28,287	54.2%	100.0%	54.2%	46.434	\$21,640
Sharkey County	4,377	46.4%	100.0%	46.4%	10.139	\$17,877
Simpson County	26,758	54.3%	100.0%	54.3%	45.417	\$20,495
Smith County	16,002	44.2%	99.8%	44.0%	25.150	\$23,164
Stone County	18,717	66.4%	100.0%	66.4%	42.015	\$21,931
Sunflower County	25,735	75.4%	100.0%	75.4%	36.883	\$15,464
Tallahatchie County	13,987	52.0%	100.0%	52.0%	21.676	\$14,943
Tate County	28,757	72.3%	100.0%	72.3%	71.047	\$23,542
Tippah County	21,995	82.8%	100.0%	82.8%	48.043	\$20,180

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Tishomingo County	19,454	58.9%	100.0%	58.9%	45.855	\$20,037
Tunica County	9,944	66.7%	100.0%	66.7%	21.871	\$19,115
Union County	28,606	66.0%	100.0%	66.0%	68.831	\$20,088
Walthall County	14,465	16.9%	100.0%	16.9%	35.809	\$20,337
Warren County	46,176	94.4%	100.0%	94.4%	78.464	\$23,793
Washington County	45,063	92.6%	100.0%	92.6%	62.178	\$19,884
Wayne County	20,298	61.9%	98.5%	61.7%	25.036	\$22,611
Webster County	9,788	47.2%	100.0%	47.2%	23.253	\$21,109
Wilkinson County	8,792	28.0%	99.0%	28.0%	12.966	\$13,231
Winston County	18,165	65.4%	100.0%	65.4%	29.914	\$24,538
Yalobusha County	12,392	65.9%	100.0%	65.9%	26.528	\$21,140
Yazoo County	28,246	67.5%	99.9%	67.5%	30.604	\$18,866
Missouri						
Adair County	25,339	79.8%	99.9%	79.8%	44.664	\$22,000
Andrew County	17,607	91.5%	100.0%	91.5%	40.691	\$28,027
Atchison County	5,171	77.4%	100.0%	77.4%	9.448	\$29,009
Audrain County	25,473	69.4%	100.0%	69.4%	36.798	\$21,819
Barry County	35,886	97.9%	100.0%	97.9%	46.111	\$21,960
Barton County	11,798	100.0%	100.0%	100.0%	19.932	\$25,938
Bates County	16,320	67.0%	100.0%	67.0%	19.505	\$27,035
Benton County	19,276	33.7%	100.0%	33.7%	27.378	\$23,984
Bollinger County	12,169	1.9%	100.0%	1.9%	19.694	\$20,949
Boone County	180,001	93.5%	100.0%	93.5%	262.617	\$29,365
Buchanan County	88,571	95.0%	100.0%	95.0%	217.072	\$25,419
Butler County	42,639	69.8%	100.0%	69.8%	61.380	\$21,286
Caldwell County	9,108	43.1%	100.0%	43.1%	21.361	\$24,238
Callaway County	44,889	99.2%	100.0%	99.2%	53.787	\$25,069
Camden County	45,815	74.1%	100.0%	74.1%	69.848	\$27,385
Cape Girardeau County	78,753	82.5%	100.0%	82.5%	136.125	\$26,546
Carroll County	8,743	66.3%	100.0%	66.3%	12.587	\$24,597
Carter County	6,054	21.0%	100.0%	21.0%	11.932	\$21,884
Cass County	104,932	83.6%	100.0%	83.6%	150.583	\$31,675
Cedar County	14,165	100.0%	100.0%	100.0%	29.854	\$22,434
Chariton County	7,451	49.7%	99.9%	49.6%	9.919	\$24,470
Christian County	86,963	100.0%	100.0%	100.0%	154.561	\$27,024
Clark County	6,840	33.0%	99.9%	32.9%	13.553	\$28,537
Clay County	246,342	95.5%	100.0%	95.5%	620.043	\$33,342
Clinton County	20,470	72.2%	100.0%	72.2%	48.860	\$28,216
Cole County	76,796	89.8%	100.0%	89.8%	195.037	\$29,433

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Cooper County	17,603	100.0%	100.0%	100.0%	31.169	\$22,895
Crawford County	23,957	98.0%	99.9%	97.9%	32.265	\$21,107
Dade County	7,569	100.0%	100.0%	100.0%	15.447	\$21,538
Dallas County	16,761	100.0%	99.9%	99.9%	30.995	\$22,096
Daviess County	8,313	55.4%	100.0%	55.4%	14.759	\$24,081
DeKalb County	12,630	73.4%	100.0%	73.4%	29.975	\$19,524
Dent County	15,441	60.5%	99.0%	60.1%	20.512	\$22,581
Douglas County	13,371	100.0%	97.7%	97.7%	16.434	\$19,164
Dunklin County	29,423	84.6%	100.0%	84.6%	54.379	\$19,818
Franklin County	103,670	96.6%	100.0%	96.6%	112.357	\$28,773
Gasconade County	14,705	67.6%	100.0%	67.6%	28.399	\$27,240
Gentry County	6,628	91.6%	100.0%	91.6%	13.487	\$21,059
Greene County	291,908	100.0%	100.0%	100.0%	432.261	\$26,378
Grundy County	9,914	82.5%	100.0%	82.5%	22.776	\$23,249
Harrison County	8,414	59.6%	100.0%	59.6%	11.646	\$20,986
Henry County	21,787	49.3%	100.0%	49.3%	31.261	\$25,244
Hickory County	9,509	100.0%	100.0%	100.0%	23.827	\$20,646
Holt County	4,404	55.5%	100.0%	55.5%	9.518	\$25,517
Howard County	10,137	18.1%	100.0%	18.1%	21.854	\$23,328
Howell County	40,076	91.4%	99.8%	91.3%	43.220	\$20,873
Iron County	10,177	61.5%	99.0%	61.5%	18.495	\$20,696
Jackson County	700,303	98.2%	100.0%	98.2%	1,158.555	\$30,237
Jasper County	120,622	100.0%	100.0%	100.0%	188.918	\$24,086
Jefferson County	224,347	94.5%	100.0%	94.5%	341.665	\$28,844
Johnson County	53,652	61.5%	100.0%	61.5%	64.697	\$24,146
Knox County	3,947	12.8%	99.7%	12.5%	7.831	\$22,020
Laclede County	35,712	100.0%	100.0%	100.0%	46.700	\$21,577
Lafayette County	32,598	60.7%	100.0%	60.7%	51.872	\$28,056
Lawrence County	38,359	100.0%	100.0%	100.0%	62.705	\$22,341
Lewis County	9,855	66.2%	100.0%	66.1%	19.513	\$22,602
Lincoln County	57,678	73.5%	100.0%	73.5%	92.056	\$25,472
Linn County	12,037	74.6%	99.8%	74.6%	19.554	\$24,150
Livingston County	15,146	73.1%	100.0%	73.1%	28.452	\$23,083
Macon County	15,153	79.0%	99.9%	78.9%	18.912	\$21,118
Madison County	12,188	49.2%	100.0%	49.2%	24.653	\$22,119
Maries County	8,769	22.3%	100.0%	22.3%	16.640	\$23,729
Marion County	28,592	88.7%	100.0%	88.7%	65.439	\$23,589
McDonald County	23,077	80.8%	100.0%	80.8%	42.776	\$20,270
Mercer County	3,641	67.9%	100.0%	67.9%	8.023	\$22,097

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Miller County	25,336	56.3%	100.0%	56.3%	42.754	\$23,408
Mississippi County	13,336	84.7%	100.0%	84.7%	32.402	\$18,462
Moniteau County	16,121	98.6%	100.0%	98.6%	38.843	\$22,445
Monroe County	8,661	53.8%	100.0%	53.8%	13.373	\$24,625
Montgomery County	11,534	63.8%	100.0%	63.8%	21.509	\$22,980
Morgan County	20,357	95.5%	100.0%	95.4%	34.063	\$21,265
New Madrid County	17,296	79.2%	100.0%	79.2%	25.630	\$20,638
Newton County	58,266	86.4%	100.0%	86.4%	93.261	\$26,996
Nodaway County	22,304	92.6%	100.0%	92.6%	25.433	\$22,151
Oregon County	10,541	33.7%	98.1%	33.5%	13.346	\$18,103
Osage County	13,713	32.5%	100.0%	32.5%	22.691	\$26,037
Ozark County	9,017	8.2%	99.9%	8.2%	12.104	\$18,818
Pemiscot County	16,272	76.2%	100.0%	76.2%	33.037	\$19,876
Perry County	19,150	52.0%	100.0%	52.0%	40.371	\$24,710
Pettis County	42,542	70.6%	100.0%	70.6%	62.358	\$22,897
Phelps County	44,732	87.2%	100.0%	87.2%	66.587	\$24,304
Pike County	18,504	33.5%	100.0%	33.5%	27.600	\$22,302
Platte County	102,985	90.2%	100.0%	90.2%	245.092	\$39,427
Polk County	32,199	100.0%	100.0%	100.0%	50.665	\$22,575
Pulaski County	52,014	94.5%	100.0%	94.5%	95.072	\$22,018
Putnam County	4,757	87.9%	99.8%	87.7%	9.196	\$22,607
Ralls County	10,212	88.2%	100.0%	88.2%	21.738	\$26,536
Randolph County	24,763	72.5%	99.9%	72.4%	51.303	\$20,836
Ray County	22,880	66.2%	100.0%	66.2%	40.225	\$27,768
Reynolds County	6,254	53.1%	95.8%	52.4%	7.736	\$22,693
Ripley County	13,401	21.4%	99.6%	21.4%	21.287	\$17,502
Saline County	22,894	76.8%	100.0%	76.8%	30.303	\$22,802
Schuyler County	4,597	9.4%	100.0%	9.4%	14.959	\$19,316
Scotland County	4,966	89.5%	100.0%	89.5%	11.372	\$23,809
Scott County	38,458	85.7%	100.0%	85.7%	91.569	\$23,185
Shannon County	8,189	25.9%	97.9%	25.9%	8.158	\$18,066
Shelby County	6,050	46.2%	98.7%	45.8%	12.079	\$23,501
St. Charles County	399,180	98.1%	100.0%	98.1%	712.268	\$37,229
St. Clair County	9,395	35.4%	100.0%	35.4%	14.023	\$22,672
St. Francois County	66,692	84.6%	100.0%	84.6%	147.586	\$22,575
St. Louis County	996,944	99.8%	100.0%	99.8%	1,963.262	\$39,784
St. Louis city	302,838	100.0%	100.0%	100.0%	4,891.676	\$28,478
Ste. Genevieve County	17,888	46.2%	100.0%	46.2%	35.837	\$28,578
Stoddard County	29,206	72.2%	100.0%	72.2%	35.478	\$22,205

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Stone County	31,749	100.0%	100.0%	100.0%	68.420	\$27,792
Sullivan County	6,221	73.5%	100.0%	73.5%	9.601	\$21,661
Taney County	55,852	96.7%	100.0%	96.7%	88.312	\$22,106
Texas County	25,571	65.1%	99.8%	64.8%	21.721	\$19,485
Vernon County	20,525	100.0%	100.0%	100.0%	24.837	\$24,388
Warren County	34,707	85.9%	100.0%	85.9%	80.977	\$27,523
Washington County	24,943	30.0%	99.9%	29.9%	32.824	\$18,915
Wayne County	13,122	24.9%	100.0%	24.9%	17.285	\$18,759
Webster County	39,107	100.0%	100.0%	100.0%	65.996	\$21,682
Worth County	2,040	57.0%	100.0%	57.0%	7.652	\$24,159
Wright County	18,378	100.0%	99.5%	99.5%	26.956	\$19,909
Montana						
Beaverhead County	9,404	78.1%	95.8%	74.6%	1.697	\$28,941
Big Horn County	13,338	84.1%	94.9%	82.3%	2.670	\$18,560
Blaine County	6,807	96.2%	83.0%	80.1%	1.610	\$18,155
Broadwater County	6,083	19.5%	100.0%	19.5%	5.101	\$32,362
Carbon County	10,714	96.6%	99.9%	96.5%	5.229	\$32,553
Carter County	1,238	51.2%	22.5%	9.0%	0.371	\$32,001
Cascade County	81,643	99.9%	100.0%	99.9%	30.259	\$29,212
Chouteau County	5,745	98.9%	97.3%	96.3%	1.446	\$22,661
Custer County	11,586	91.5%	98.0%	90.9%	3.062	\$30,123
Daniels County	1,747	98.3%	76.5%	75.6%	1.225	\$34,799
Dawson County	8,680	88.4%	98.6%	87.2%	3.660	\$32,501
Deer Lodge County	9,131	79.6%	99.7%	79.3%	12.397	\$25,742
Fallon County	2,920	74.8%	97.9%	74.5%	1.802	\$34,329
Fergus County	11,113	83.6%	96.2%	79.8%	2.561	\$29,237
Flathead County	102,105	92.0%	99.7%	92.0%	20.069	\$30,068
Gallatin County	111,868	93.5%	99.7%	93.3%	42.982	\$34,331
Garfield County	1,268	42.9%	76.2%	34.9%	0.271	\$27,291
Glacier County	13,747	58.6%	99.5%	58.6%	4.589	\$17,219
Golden Valley County	826	90.3%	100.0%	90.3%	0.703	\$27,476
Granite County	3,378	21.7%	97.2%	21.2%	1.956	\$29,074
Hill County	16,347	97.1%	99.8%	96.8%	5.639	\$23,017
Jefferson County	12,096	84.5%	100.0%	84.5%	7.303	\$32,133
Judith Basin County	1,952	81.6%	96.8%	79.7%	1.044	\$29,827
Lake County	30,250	78.5%	100.0%	78.5%	20.300	\$24,912
Lewis and Clark County	68,700	97.5%	99.7%	97.3%	19.862	\$32,433
Liberty County	2,430	83.5%	87.5%	70.9%	1.699	\$45,587
Lincoln County	19,794	22.7%	93.1%	21.8%	5.479	\$24,082

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Madison County	8,766	91.0%	99.4%	90.8%	2.443	\$34,014
McCone County	1,675	49.4%	88.4%	47.9%	0.634	\$27,365
Meagher County	1,866	96.9%	94.7%	92.0%	0.780	\$23,972
Mineral County	4,316	27.7%	98.7%	27.7%	3.539	\$23,744
Missoula County	118,791	90.2%	99.9%	90.2%	45.805	\$30,636
Musselshell County	4,651	53.3%	99.9%	53.3%	2.490	\$22,737
Park County	16,736	98.8%	98.8%	98.4%	5.971	\$32,133
Petroleum County	513	40.2%	90.1%	38.4%	0.310	\$32,565
Phillips County	4,074	83.8%	92.5%	81.9%	0.793	\$23,533
Pondera County	5,972	38.1%	100.0%	38.1%	3.680	\$24,392
Powder River County	1,716	49.8%	83.0%	45.1%	0.520	\$30,969
Powell County	6,968	54.2%	97.2%	54.2%	2.995	\$25,060
Prairie County	1,087	63.4%	97.1%	62.4%	0.626	\$28,087
Ravalli County	43,171	74.3%	97.5%	73.3%	18.057	\$27,766
Richland County	10,913	78.5%	95.5%	76.4%	5.236	\$31,849
Roosevelt County	11,059	79.9%	76.0%	65.6%	4.696	\$18,813
Rosebud County	9,063	61.3%	88.4%	53.6%	1.809	\$23,471
Sanders County	11,844	24.6%	94.7%	22.4%	4.290	\$23,822
Sheridan County	3,424	86.7%	86.3%	74.6%	2.042	\$33,711
Silver Bow County	34,991	92.8%	100.0%	92.8%	48.702	\$26,224
Stillwater County	9,534	93.9%	97.7%	92.2%	5.310	\$32,061
Sweet Grass County	3,710	97.3%	98.9%	96.7%	2.000	\$29,649
Teton County	6,162	38.9%	99.3%	38.9%	2.712	\$27,402
Toole County	4,853	31.1%	98.7%	31.1%	2.533	\$26,434
Treasure County	679	64.9%	98.5%	64.9%	0.695	\$26,348
Valley County	7,437	87.5%	91.3%	82.1%	1.510	\$28,899
Wheatland County	2,235	97.3%	100.0%	97.3%	1.570	\$21,442
Wibaux County	1,034	8.7%	64.3%	8.4%	1.163	\$23,137
Yellowstone County	160,135	99.7%	100.0%	99.7%	60.812	\$33,007
Nebraska						
Adams County	31,511	92.1%	100.0%	92.1%	55.943	\$28,783
Antelope County	6,336	62.4%	100.0%	62.4%	7.391	\$26,406
Arthur County	464	75.6%	100.0%	75.6%	0.649	\$26,514
Banner County	730	9.5%	100.0%	9.5%	0.978	\$34,670
Blaine County	476	35.9%	100.0%	35.9%	0.670	\$26,767
Boone County	5,239	54.0%	100.0%	54.0%	7.631	\$30,680
Box Butte County	10,772	96.7%	100.0%	96.7%	10.018	\$28,835
Boyd County	1,955	99.4%	100.0%	99.4%	3.621	\$27,951
Brown County	2,973	80.1%	99.2%	80.1%	2.434	\$28,860

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Buffalo County	49,615	87.3%	100.0%	87.3%	51.249	\$30,184
Burt County	6,488	76.8%	100.0%	76.8%	13.198	\$28,499
Butler County	8,058	83.5%	100.0%	83.5%	13.777	\$28,776
Cass County	26,158	81.4%	100.0%	81.4%	46.925	\$33,178
Cedar County	8,446	69.1%	100.0%	69.1%	11.409	\$29,494
Chase County	3,977	67.7%	100.0%	67.7%	4.446	\$29,526
Cherry County	5,761	70.5%	97.1%	69.5%	0.967	\$27,605
Cheyenne County	9,310	93.2%	100.0%	93.2%	7.782	\$32,321
Clay County	6,213	62.1%	100.0%	62.1%	10.856	\$27,297
Colfax County	10,871	87.4%	100.0%	87.4%	26.408	\$22,407
Cuming County	8,940	64.7%	100.0%	64.7%	15.667	\$29,306
Custer County	10,840	59.1%	100.0%	59.1%	4.209	\$33,294
Dakota County	20,083	90.1%	100.0%	90.1%	75.999	\$24,365
Dawes County	8,716	80.1%	100.0%	80.1%	6.241	\$26,021
Dawson County	23,709	82.8%	100.0%	82.8%	23.403	\$25,590
Deuel County	1,825	7.0%	100.0%	7.0%	4.149	\$27,397
Dixon County	5,709	87.1%	100.0%	87.1%	11.988	\$26,757
Dodge County	36,791	93.1%	100.0%	93.1%	69.587	\$27,494
Douglas County	566,875	98.0%	100.0%	98.0%	1,725.886	\$33,734
Dundy County	1,770	80.6%	100.0%	80.6%	1.925	\$25,790
Fillmore County	5,527	60.4%	100.0%	60.4%	9.606	\$32,631
Franklin County	3,022	47.4%	100.0%	47.4%	5.248	\$27,757
Frontier County	2,608	67.4%	100.0%	67.4%	2.676	\$28,583
Furnas County	4,715	25.1%	100.0%	25.1%	6.557	\$27,031
Gage County	21,493	74.2%	100.0%	74.2%	25.242	\$28,438
Garden County	1,897	25.6%	99.6%	25.4%	1.113	\$33,572
Garfield County	1,987	88.2%	99.8%	88.1%	3.487	\$27,109
Gosper County	1,996	12.5%	100.0%	12.5%	4.357	\$34,731
Grant County	660	32.7%	100.0%	32.7%	0.850	\$22,640
Greeley County	2,356	30.9%	100.0%	30.9%	4.135	\$26,159
Hall County	61,606	99.6%	100.0%	99.6%	112.772	\$27,421
Hamilton County	9,279	46.9%	100.0%	46.9%	17.092	\$32,086
Harlan County	3,401	2.9%	100.0%	2.9%	6.145	\$27,421
Hayes County	916	16.9%	100.0%	16.9%	1.285	\$26,369
Hitchcock County	2,806	33.3%	100.0%	33.3%	3.952	\$26,917
Holt County	10,178	64.4%	99.9%	64.4%	4.219	\$29,975
Hooker County	682	23.5%	100.0%	23.5%	0.946	\$25,791
Howard County	6,466	69.2%	100.0%	69.2%	11.357	\$26,651
Jefferson County	7,097	46.0%	100.0%	46.0%	12.447	\$26,439

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Johnson County	5,134	48.8%	100.0%	48.8%	13.652	\$23,652
Kearney County	6,544	81.4%	100.0%	81.4%	12.676	\$30,355
Keith County	8,021	81.2%	100.0%	81.2%	7.556	\$28,410
Keya Paha County	810	96.5%	98.6%	95.2%	1.048	\$31,406
Kimball County	3,618	94.2%	100.0%	94.2%	3.801	\$23,870
Knox County	8,419	62.6%	99.9%	62.6%	7.596	\$27,372
Lancaster County	317,252	95.9%	100.0%	95.9%	378.786	\$30,929
Lincoln County	35,185	93.5%	100.0%	93.5%	13.722	\$30,073
Logan County	749	42.7%	100.0%	42.7%	1.313	\$24,813
Loup County	618	73.9%	100.0%	73.9%	1.087	\$28,299
Madison County	35,383	90.1%	100.0%	90.1%	61.778	\$27,528
McPherson County	492	49.2%	99.8%	49.0%	0.573	\$26,384
Merrick County	7,733	83.6%	100.0%	83.6%	15.948	\$29,038
Morrill County	4,686	59.1%	99.7%	59.1%	3.291	\$26,461
Nance County	3,532	50.4%	100.0%	50.4%	7.998	\$29,711
Nemaha County	6,958	74.1%	100.0%	74.1%	17.080	\$27,945
Nuckolls County	4,195	69.1%	100.0%	69.1%	7.294	\$26,735
Otoe County	15,985	81.3%	100.0%	81.3%	25.965	\$29,229
Pawnee County	2,632	54.7%	100.0%	54.7%	6.106	\$26,609
Perkins County	2,929	56.7%	100.0%	56.7%	3.316	\$33,749
Phelps County	8,996	80.9%	100.0%	80.9%	16.666	\$30,814
Pierce County	7,141	72.7%	100.0%	72.7%	12.457	\$29,509
Platte County	33,362	86.4%	100.0%	86.4%	49.494	\$29,847
Polk County	5,278	82.6%	100.0%	82.6%	12.041	\$30,403
Red Willow County	10,726	87.4%	100.0%	87.4%	14.960	\$25,456
Richardson County	7,937	92.0%	100.0%	92.0%	14.383	\$28,965
Rock County	1,360	80.0%	100.0%	80.0%	1.349	\$34,441
Saline County	14,350	87.1%	99.9%	87.0%	24.999	\$22,943
Sarpy County	184,456	94.7%	100.0%	94.7%	771.814	\$34,928
Saunders County	21,302	79.9%	100.0%	79.9%	28.394	\$32,344
Scotts Bluff County	35,989	86.8%	100.0%	86.8%	48.673	\$28,089
Seward County	17,309	86.1%	100.0%	86.1%	30.291	\$30,694
Sheridan County	5,190	61.9%	99.1%	61.7%	2.126	\$27,304
Sherman County	3,038	68.3%	100.0%	68.3%	5.369	\$27,380
Sioux County	1,187	11.0%	100.0%	11.0%	0.574	\$26,951
Stanton County	5,970	82.8%	100.0%	82.8%	13.950	\$31,686
Thayer County	5,039	43.5%	100.0%	43.5%	8.782	\$28,793
Thomas County	720	32.4%	100.0%	32.4%	1.009	\$28,701
Thurston County	7,302	48.9%	100.0%	48.9%	18.553	\$20,396

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Valley County	4,190	73.8%	100.0%	73.8%	7.376	\$28,587
Washington County	20,667	84.1%	100.0%	84.1%	52.998	\$34,178
Wayne County	9,400	72.6%	100.0%	72.6%	21.223	\$27,192
Webster County	3,533	86.4%	100.0%	86.4%	6.145	\$26,970
Wheeler County	805	76.4%	100.0%	76.4%	1.400	\$27,832
York County	13,772	88.3%	100.0%	88.3%	24.055	\$31,577
Nevada						
Carson City	55,414	99.4%	100.0%	99.4%	383.058	\$29,767
Churchill County	24,440	89.6%	99.4%	89.6%	4.957	\$26,606
Clark County	2,231,630	96.4%	100.0%	96.4%	282.792	\$29,256
Douglas County	48,467	94.2%	100.0%	94.2%	68.290	\$36,390
Elko County	52,460	65.6%	98.1%	65.6%	3.055	\$33,091
Esmeralda County	826	35.4%	99.3%	35.0%	0.231	\$24,713
Eureka County	2,003	1.3%	96.0%	1.3%	0.480	\$34,590
Humboldt County	16,786	1.9%	99.0%	1.9%	1.741	\$30,516
Lander County	5,575	0.0%	97.4%	0.0%	1.015	\$33,329
Lincoln County	5,201	83.7%	95.9%	82.5%	0.489	\$25,304
Lyon County	55,806	79.3%	99.9%	79.3%	27.886	\$26,855
Mineral County	4,514	71.4%	98.0%	71.4%	1.203	\$22,897
Nye County	45,346	84.0%	99.0%	83.9%	2.494	\$25,092
Pershing County	6,666	0.0%	98.3%	0.0%	1.104	\$19,330
Storey County	4,029	48.3%	100.0%	48.3%	15.324	\$35,887
Washoe County	465,731	97.2%	99.7%	97.2%	73.898	\$33,546
White Pine County	9,475	0.1%	99.1%	0.1%	1.068	\$26,412
New Hampshire						
Belknap County	61,022	97.3%	100.0%	97.3%	152.467	\$35,382
Carroll County	48,779	96.1%	100.0%	96.1%	52.391	\$36,033
Cheshire County	76,492	81.5%	100.0%	81.5%	108.244	\$34,136
Coos County	31,589	83.4%	98.4%	82.8%	17.601	\$26,535
Grafton County	89,784	92.9%	100.0%	92.8%	52.544	\$36,619
Hillsborough County	415,242	97.8%	100.0%	97.8%	473.946	\$39,478
Merrimack County	151,126	97.3%	100.0%	97.3%	161.785	\$36,148
Rockingham County	309,173	99.0%	99.9%	98.9%	445.032	\$45,242
Strafford County	130,090	98.3%	100.0%	98.3%	352.571	\$34,161
Sullivan County	43,144	85.1%	100.0%	85.1%	80.296	\$31,668
New Jersey						
Atlantic County	265,429	97.7%	99.9%	97.7%	477.644	\$31,366
Bergen County	936,692	99.9%	100.0%	99.9%	4,019.985	\$48,426
Burlington County	445,384	98.4%	100.0%	98.4%	557.722	\$41,517

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Camden County	507,078	98.6%	100.0%	98.6%	2,291.746	\$34,280
Cape May County	92,560	98.5%	99.9%	98.4%	368.142	\$38,496
Cumberland County	150,972	96.4%	100.0%	96.4%	312.117	\$23,946
Essex County	799,767	99.3%	100.0%	99.3%	6,336.683	\$37,141
Gloucester County	291,408	99.0%	100.0%	99.0%	904.979	\$37,888
Hudson County	676,061	99.2%	100.0%	99.2%	14,636.203	\$38,147
Hunterdon County	124,714	99.0%	100.0%	99.0%	291.511	\$54,984
Mercer County	369,811	98.4%	100.0%	98.4%	1,646.843	\$42,155
Middlesex County	829,685	99.3%	100.0%	99.3%	2,685.814	\$38,140
Monmouth County	621,354	99.7%	100.0%	99.7%	1,325.435	\$48,959
Morris County	494,228	100.0%	100.0%	100.0%	1,073.996	\$55,826
Ocean County	601,646	99.2%	99.9%	99.1%	956.845	\$34,784
Passaic County	503,310	100.0%	100.0%	100.0%	2,726.596	\$30,800
Salem County	62,607	97.1%	100.0%	97.1%	188.633	\$32,526
Somerset County	331,164	99.6%	100.0%	99.6%	1,097.248	\$54,393
Sussex County	140,799	100.0%	100.0%	100.0%	271.282	\$42,639
Union County	558,067	99.5%	100.0%	99.5%	5,425.766	\$40,201
Warren County	105,779	99.3%	100.0%	99.3%	296.368	\$38,132
New Mexico						
Bernalillo County	678,695	98.6%	100.0%	98.6%	584.665	\$29,415
Catron County	3,578	8.7%	69.8%	7.8%	0.517	\$20,767
Chaves County	64,689	87.9%	100.0%	87.9%	10.665	\$21,356
Cibola County	26,746	73.1%	98.9%	72.2%	5.892	\$18,514
Colfax County	12,110	14.5%	100.0%	14.5%	3.222	\$22,293
Curry County	49,437	96.7%	100.0%	96.7%	35.192	\$23,729
De Baca County	1,781	79.3%	100.0%	79.3%	0.767	\$19,215
Doña Ana County	217,517	86.7%	100.0%	86.7%	57.128	\$21,300
Eddy County	57,900	83.7%	99.9%	83.7%	13.866	\$28,957
Grant County	27,346	83.6%	99.8%	83.6%	6.903	\$24,913
Guadalupe County	4,341	64.0%	100.0%	64.0%	1.432	\$17,930
Harding County	655	58.8%	100.0%	58.8%	0.308	\$32,424
Hidalgo County	4,240	3.1%	94.8%	2.4%	1.234	\$20,275
Lea County	69,606	87.3%	100.0%	87.3%	15.852	\$24,879
Lincoln County	19,555	79.4%	100.0%	79.4%	4.048	\$26,534
Los Alamos County	19,101	99.5%	100.0%	99.5%	174.971	\$56,410
Luna County	23,963	61.8%	100.0%	61.8%	8.081	\$16,496
McKinley County	72,290	33.5%	99.8%	33.5%	13.265	\$15,278
Mora County	4,506	58.1%	98.2%	58.0%	2.333	\$17,689
Otero County	66,777	79.4%	98.2%	79.4%	10.098	\$22,477

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Quay County	8,253	48.0%	100.0%	48.0%	2.871	\$18,637
Rio Arriba County	39,006	84.1%	99.0%	83.8%	6.655	.
Roosevelt County	18,743	75.4%	100.0%	75.4%	7.658	\$19,849
San Juan County	125,043	64.8%	99.9%	64.8%	22.681	\$23,206
San Miguel County	27,591	52.2%	100.0%	52.2%	5.851	\$20,285
Sandoval County	145,177	88.9%	99.9%	88.9%	39.124	\$27,549
Santa Fe County	150,049	97.6%	100.0%	97.6%	78.584	\$37,080
Sierra County	10,968	78.9%	98.3%	77.7%	2.625	\$25,389
Socorro County	16,735	5.0%	94.6%	5.0%	2.518	\$17,464
Taos County	32,835	57.8%	95.5%	57.5%	14.904	\$23,642
Torrance County	15,591	46.8%	100.0%	46.8%	4.661	\$20,072
Union County	4,118	74.0%	100.0%	74.0%	1.077	\$23,968
Valencia County	76,455	86.6%	100.0%	86.6%	71.710	\$21,934
New York						
Albany County	307,117	99.4%	99.9%	99.4%	587.442	\$36,454
Allegany County	46,430	73.9%	99.9%	73.9%	45.108	\$23,030
Bronx County	1,432,132	99.7%	100.0%	99.7%	34,020.378	\$20,850
Broome County	191,659	97.2%	100.0%	97.2%	271.562	\$27,744
Cattaraugus County	76,840	79.7%	100.0%	79.7%	58.730	\$24,628
Cayuga County	77,145	85.3%	100.0%	85.3%	111.549	\$29,022
Chautauqua County	127,939	95.4%	100.0%	95.4%	120.671	\$24,825
Chemung County	84,254	97.4%	100.0%	97.4%	206.834	\$28,115
Chenango County	47,536	90.3%	98.6%	89.6%	53.199	\$26,717
Clinton County	80,695	92.7%	99.8%	92.6%	77.752	\$26,772
Columbia County	59,916	98.9%	100.0%	98.9%	94.400	\$35,581
Cortland County	47,823	91.9%	100.0%	91.9%	95.884	\$26,979
Delaware County	44,527	87.6%	99.1%	86.9%	30.869	\$26,629
Dutchess County	293,718	99.9%	100.0%	99.9%	369.164	\$38,048
Erie County	919,719	99.8%	100.0%	99.8%	882.061	\$32,347
Essex County	37,300	90.1%	98.8%	89.1%	20.789	\$30,273
Franklin County	50,293	93.3%	99.4%	93.1%	30.871	\$25,491
Fulton County	53,591	92.6%	99.6%	92.4%	108.162	\$26,875
Genesee County	57,511	94.6%	100.0%	94.6%	116.670	\$29,465
Greene County	47,491	95.6%	99.7%	95.4%	73.384	\$27,271
Hamilton County	4,434	22.2%	93.1%	21.9%	2.582	\$25,918
Herkimer County	61,833	88.9%	99.7%	88.8%	43.808	\$26,151
Jefferson County	111,755	98.3%	100.0%	98.3%	88.094	\$25,884
Kings County	2,582,830	100.0%	100.0%	100.0%	36,472.522	\$31,984
Lewis County	26,447	84.1%	99.8%	84.1%	20.748	\$26,169

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Livingston County	63,227	88.7%	100.0%	88.7%	100.080	\$27,073
Madison County	70,795	93.0%	100.0%	93.0%	108.110	\$28,925
Monroe County	742,474	99.9%	100.0%	99.9%	1,129.744	\$32,502
Montgomery County	49,455	95.5%	100.0%	95.5%	122.704	\$25,427
Nassau County	1,358,343	100.0%	100.0%	100.0%	4,770.869	\$49,211
New York County	1,628,701	100.0%	100.0%	100.0%	71,344.479	\$72,832
Niagara County	210,433	99.2%	100.0%	99.2%	402.851	\$29,824
Oneida County	229,577	96.5%	100.0%	96.5%	189.353	\$28,548
Onondaga County	461,809	99.9%	100.0%	99.9%	593.288	\$32,678
Ontario County	109,864	97.0%	100.0%	97.0%	170.579	\$35,121
Orange County	381,951	99.9%	100.0%	99.9%	470.565	\$33,472
Orleans County	40,612	96.8%	100.0%	96.8%	103.798	\$25,261
Oswego County	117,898	99.0%	100.0%	99.0%	123.888	\$27,217
Otsego County	59,749	78.7%	99.9%	78.6%	59.648	\$27,680
Putnam County	98,892	99.4%	100.0%	99.4%	429.384	\$45,905
Queens County	2,278,906	100.0%	100.0%	100.0%	20,997.523	\$30,289
Rensselaer County	159,442	99.9%	100.0%	99.9%	244.381	\$34,280
Richmond County	476,179	100.0%	100.0%	100.0%	8,157.891	\$34,987
Rockland County	325,695	100.0%	100.0%	100.0%	1,876.661	\$38,076
Saratoga County	230,163	99.9%	99.6%	99.5%	284.157	\$41,709
Schenectady County	155,350	100.0%	100.0%	100.0%	759.599	\$31,412
Schoharie County	31,097	97.1%	99.7%	96.9%	50.010	\$28,712
Schuyler County	17,912	87.3%	100.0%	87.3%	54.554	\$26,484
Seneca County	34,300	81.3%	100.0%	81.3%	105.961	\$27,366
St. Lawrence County	108,047	92.6%	99.9%	92.5%	40.310	\$24,473
Steuben County	95,796	82.7%	100.0%	82.6%	68.890	\$28,600
Suffolk County	1,481,093	100.0%	100.0%	100.0%	1,623.914	\$42,204
Sullivan County	75,498	99.1%	99.9%	99.0%	77.983	\$29,292
Tioga County	48,560	94.0%	100.0%	94.0%	93.636	\$31,330
Tompkins County	102,793	97.9%	100.0%	97.9%	216.566	\$31,464
Ulster County	178,599	99.8%	99.4%	99.3%	158.863	\$33,879
Warren County	64,265	93.2%	99.2%	92.9%	74.127	\$33,605
Washington County	61,197	97.3%	100.0%	97.3%	73.626	\$27,156
Wayne County	90,064	93.8%	100.0%	93.8%	149.155	\$29,028
Westchester County	967,612	100.0%	100.0%	100.0%	2,247.662	\$54,572
Wyoming County	40,085	84.3%	100.0%	84.3%	67.626	\$27,150
Yates County	24,841	71.2%	100.0%	71.2%	73.463	\$27,512
North Carolina						
Alamance County	166,425	98.7%	100.0%	98.7%	392.564	\$26,215

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Alexander County	37,353	86.9%	100.0%	86.9%	143.669	\$24,452
Alleghany County	11,157	94.6%	78.7%	74.7%	47.465	\$21,244
Anson County	24,877	86.4%	100.0%	86.4%	46.810	\$20,124
Ashe County	27,105	98.3%	63.3%	62.3%	63.607	\$24,039
Avery County	17,505	96.2%	99.2%	95.5%	70.846	\$20,253
Beaufort County	47,079	89.3%	100.0%	89.3%	56.914	\$26,233
Bertie County	19,026	83.0%	100.0%	83.0%	27.208	\$20,430
Bladen County	33,190	61.4%	100.0%	61.4%	37.961	\$20,803
Brunswick County	136,744	95.1%	99.9%	95.1%	161.450	\$31,204
Buncombe County	259,097	98.9%	100.0%	98.9%	394.561	\$31,439
Burke County	90,377	97.7%	100.0%	97.7%	178.223	\$23,466
Cabarrus County	211,340	99.4%	100.0%	99.4%	584.217	\$31,050
Caldwell County	82,029	97.6%	100.0%	97.6%	173.950	\$22,945
Camden County	10,710	96.6%	100.0%	96.6%	44.522	\$26,951
Carteret County	69,524	99.8%	99.9%	99.7%	137.331	\$32,005
Caswell County	22,696	61.6%	100.0%	61.6%	53.412	\$22,982
Catawba County	158,644	99.3%	100.0%	99.3%	397.882	\$26,950
Chatham County	73,138	81.8%	100.0%	81.8%	107.211	\$39,299
Cherokee County	28,383	73.9%	97.0%	73.2%	62.322	\$22,754
Chowan County	14,029	95.7%	100.0%	95.7%	81.340	\$24,084
Clay County	11,139	61.2%	98.1%	61.2%	51.869	\$26,590
Cleveland County	97,645	95.6%	100.0%	95.6%	210.327	\$21,920
Columbus County	55,655	84.1%	100.0%	84.1%	59.378	\$22,081
Craven County	102,912	94.7%	100.0%	94.7%	145.160	\$28,007
Cumberland County	332,330	99.5%	100.0%	99.5%	509.463	\$24,301
Currituck County	27,072	97.1%	100.0%	97.1%	103.387	\$30,017
Dare County	36,501	99.4%	99.4%	98.8%	95.199	\$33,550
Davidson County	166,612	99.6%	100.0%	99.6%	301.465	\$25,109
Davie County	42,733	99.6%	100.0%	99.6%	161.803	\$29,613
Duplin County	58,856	85.4%	100.0%	85.4%	72.108	\$19,455
Durham County	316,719	99.2%	100.0%	99.2%	1,107.505	\$34,063
Edgecombe County	52,005	89.4%	100.0%	89.4%	102.912	\$20,055
Forsyth County	379,096	100.0%	100.0%	100.0%	928.821	\$29,921
Franklin County	67,559	87.0%	99.5%	86.9%	137.404	\$26,273
Gaston County	222,844	99.8%	100.0%	99.8%	625.918	\$26,069
Gates County	11,573	62.5%	100.0%	62.5%	33.994	\$25,334
Graham County	8,484	51.4%	100.0%	51.4%	29.047	\$19,323
Granville County	60,111	85.6%	100.0%	85.6%	113.082	\$26,228
Greene County	21,012	34.2%	100.0%	34.2%	79.014	\$18,339

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Guilford County	533,664	99.8%	100.0%	99.8%	826.484	\$29,708
Halifax County	50,574	85.0%	100.0%	85.0%	69.845	\$21,016
Harnett County	134,209	95.8%	100.0%	95.8%	225.566	\$23,011
Haywood County	61,971	81.7%	99.9%	81.7%	111.923	\$29,453
Henderson County	116,748	91.8%	99.6%	91.4%	312.940	\$29,860
Hertford County	23,659	82.5%	100.0%	82.5%	67.011	\$18,918
Hoke County	54,764	89.0%	100.0%	89.0%	140.153	\$20,656
Hyde County	5,230	20.6%	99.9%	20.6%	8.536	\$18,433
Iredell County	178,426	97.9%	100.0%	97.9%	310.937	\$32,006
Jackson County	43,327	37.1%	99.2%	37.1%	88.286	\$24,073
Johnston County	202,631	95.0%	100.0%	95.0%	256.074	\$25,847
Jones County	9,637	59.1%	100.0%	59.1%	20.473	\$21,539
Lee County	61,451	98.3%	100.0%	98.3%	241.023	\$23,842
Lenoir County	55,976	92.2%	100.0%	92.2%	139.733	\$22,361
Lincoln County	83,768	98.5%	100.0%	98.5%	281.159	\$29,089
Macon County	35,283	59.1%	100.0%	59.1%	68.436	\$28,429
Madison County	21,763	100.0%	87.5%	87.5%	48.409	\$25,326
Martin County	22,671	79.1%	100.0%	79.1%	49.155	\$23,269
McDowell County	45,505	76.8%	99.9%	76.8%	103.278	\$22,725
Mecklenburg County	1,093,890	100.0%	100.0%	100.0%	2,088.204	\$37,298
Mitchell County	15,000	89.9%	96.6%	86.8%	67.743	\$23,907
Montgomery County	27,271	57.1%	100.0%	57.1%	55.456	\$22,760
Moore County	98,679	90.6%	100.0%	90.6%	141.406	\$33,432
Nash County	94,016	93.3%	100.0%	93.3%	173.973	\$26,980
New Hanover County	232,266	99.8%	99.9%	99.8%	1,212.660	\$32,629
Northampton County	19,676	81.3%	100.0%	81.3%	36.669	\$20,538
Onslow County	197,682	97.3%	100.0%	97.2%	259.172	\$23,783
Orange County	146,022	98.0%	100.0%	98.0%	366.928	\$40,650
Pamlico County	12,670	87.3%	99.8%	87.1%	37.648	\$27,026
Pasquotank County	39,639	99.9%	100.0%	99.9%	174.713	\$23,699
Pender County	62,159	78.2%	99.9%	78.1%	71.464	\$27,724
Perquimans County	13,422	92.0%	100.0%	92.0%	54.321	\$25,809
Person County	39,507	93.7%	100.0%	93.7%	100.701	\$25,922
Pitt County	179,913	96.0%	100.0%	96.0%	275.951	\$25,722
Polk County	20,611	78.0%	100.0%	78.0%	86.678	\$30,344
Randolph County	143,351	97.8%	100.0%	97.8%	183.192	\$24,127
Richmond County	44,887	93.7%	100.0%	93.7%	94.734	\$20,745
Robeson County	131,831	84.4%	100.0%	84.4%	138.883	\$17,881
Rockingham County	90,690	97.0%	100.0%	97.0%	160.357	\$23,604

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Rowan County	141,260	98.0%	100.0%	98.0%	276.236	\$25,117
Rutherford County	66,824	87.9%	99.4%	87.9%	118.451	\$22,493
Sampson County	63,626	67.5%	100.0%	67.5%	67.348	\$21,950
Scotland County	34,810	90.7%	100.0%	90.7%	109.175	\$18,242
Stanly County	62,075	98.1%	100.0%	98.1%	157.118	\$24,671
Stokes County	45,467	96.5%	100.0%	96.5%	101.295	\$25,091
Surry County	71,948	98.8%	98.9%	97.7%	135.198	\$23,957
Swain County	14,245	46.1%	99.7%	46.1%	26.979	\$20,984
Transylvania County	34,215	83.6%	97.9%	82.9%	90.390	\$27,050
Tyrrell County	4,131	77.9%	100.0%	77.9%	10.619	\$18,682
Union County	235,896	98.7%	100.0%	98.7%	373.537	\$34,379
Vance County	44,581	95.8%	100.0%	95.8%	175.850	\$23,211
Wake County	1,092,301	99.8%	100.0%	99.8%	1,307.802	\$39,102
Warren County	19,807	68.0%	99.2%	67.9%	46.229	\$22,461
Washington County	11,859	90.8%	100.0%	90.8%	34.064	\$21,043
Watauga County	55,944	97.6%	99.4%	97.1%	178.989	\$24,906
Wayne County	123,248	99.8%	100.0%	99.8%	222.837	\$24,124
Wilkes County	68,557	99.3%	95.9%	95.2%	90.891	\$23,745
Wilson County	81,455	98.5%	100.0%	98.5%	221.240	\$24,273
Yadkin County	37,543	99.3%	100.0%	99.3%	112.126	\$23,566
Yancey County	17,903	90.4%	96.4%	87.6%	57.272	\$23,264
North Dakota						
Adams County	2,294	100.0%	99.7%	99.7%	2.323	\$33,652
Barnes County	10,542	93.6%	100.0%	93.6%	7.068	\$33,868
Benson County	6,962	82.9%	100.0%	82.9%	5.013	\$21,407
Billings County	919	57.9%	97.7%	56.8%	0.800	\$45,523
Bottineau County	6,411	95.4%	100.0%	95.4%	3.843	\$35,039
Bowman County	3,076	100.0%	99.9%	99.9%	2.648	\$36,221
Burke County	2,100	55.2%	100.0%	55.2%	1.903	\$35,806
Burleigh County	95,273	98.4%	100.0%	98.4%	58.355	\$37,764
Cass County	181,505	92.3%	100.0%	92.3%	102.839	\$36,655
Cavalier County	3,828	100.0%	100.0%	100.0%	2.571	\$43,125
Dickey County	4,903	99.8%	100.0%	99.8%	4.333	\$32,943
Divide County	2,283	96.1%	92.8%	90.3%	1.811	\$45,190
Dunn County	4,332	98.3%	99.9%	98.2%	2.157	\$44,492
Eddy County	2,313	100.0%	100.0%	100.0%	3.670	\$34,565
Emmons County	3,295	100.0%	100.0%	100.0%	2.181	\$29,417
Foster County	3,216	100.0%	100.0%	100.0%	5.061	\$33,737
Golden Valley County	1,769	60.8%	98.2%	59.6%	1.768	\$32,590

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Grand Forks County	70,770	90.2%	100.0%	90.2%	49.270	\$31,052
Grant County	2,374	96.3%	99.1%	95.8%	1.431	\$36,287
Griggs County	2,232	91.8%	100.0%	91.8%	3.149	\$35,069
Hettinger County	2,514	100.0%	100.0%	100.0%	2.220	\$32,474
Kidder County	2,450	100.0%	100.0%	100.0%	1.813	\$32,364
LaMoure County	4,062	100.0%	100.0%	100.0%	3.545	\$36,584
Logan County	1,903	100.0%	100.0%	100.0%	1.917	\$33,396
McHenry County	5,816	86.9%	100.0%	86.9%	3.104	\$37,626
McIntosh County	2,585	100.0%	100.0%	100.0%	2.652	\$32,389
McKenzie County	13,632	72.9%	98.6%	71.9%	4.939	\$36,798
McLean County	9,541	91.7%	100.0%	91.7%	4.520	\$35,367
Mercer County	8,267	100.0%	100.0%	100.0%	7.926	\$38,298
Morton County	31,095	97.0%	100.0%	97.0%	16.143	\$39,300
Mountrail County	10,218	86.2%	100.0%	86.2%	5.598	\$37,602
Nelson County	2,869	100.0%	100.0%	100.0%	2.922	\$33,360
Oliver County	1,952	100.0%	100.0%	100.0%	2.702	\$33,849
Pembina County	6,947	100.0%	100.0%	100.0%	6.210	\$36,251
Pierce County	4,081	100.0%	100.0%	100.0%	4.006	\$28,008
Ramsey County	11,481	100.0%	100.0%	100.0%	9.673	\$35,059
Ransom County	5,237	99.3%	100.0%	99.3%	6.073	\$34,691
Renville County	2,374	98.8%	100.0%	98.8%	2.707	\$33,635
Richland County	16,239	98.2%	100.0%	98.2%	11.310	\$30,820
Rolette County	14,301	91.8%	100.0%	91.8%	15.836	\$19,295
Sargent County	3,870	100.0%	100.0%	100.0%	4.508	\$37,039
Sheridan County	1,349	100.0%	100.0%	100.0%	1.387	\$32,559
Sioux County	4,358	97.7%	99.1%	97.6%	3.983	\$16,706
Slope County	763	98.3%	98.3%	97.0%	0.628	\$37,340
Stark County	30,994	98.0%	100.0%	98.0%	23.221	\$37,897
Steele County	1,903	68.7%	100.0%	68.7%	2.672	\$39,403
Stutsman County	20,917	98.4%	100.0%	98.4%	9.415	\$32,001
Towner County	2,192	85.8%	100.0%	85.8%	2.139	\$36,217
Traill County	8,037	84.4%	100.0%	84.4%	9.324	\$32,712
Walsh County	10,667	88.4%	100.0%	88.4%	8.321	\$31,366
Ward County	67,744	95.5%	100.0%	95.5%	33.649	\$34,382
Wells County	3,957	100.0%	100.0%	100.0%	3.113	\$34,602
Williams County	35,350	94.3%	99.8%	94.2%	17.016	\$43,824
Ohio						
Adams County	27,724	61.1%	99.9%	61.1%	47.483	\$21,543
Allen County	102,663	96.8%	100.0%	96.8%	255.066	\$25,662

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Ashland County	53,744	81.0%	100.0%	81.0%	127.069	\$25,471
Ashtabula County	97,493	92.7%	99.9%	92.7%	138.893	\$22,817
Athens County	65,818	78.5%	99.9%	78.4%	130.695	\$20,745
Auglaize County	45,804	94.1%	100.0%	94.1%	114.115	\$29,908
Belmont County	67,505	83.9%	99.9%	83.8%	126.858	\$26,106
Brown County	43,602	68.5%	100.0%	68.5%	88.981	\$25,637
Butler County	382,369	99.8%	100.0%	99.8%	818.680	\$30,777
Carroll County	27,081	54.2%	99.9%	54.2%	68.627	\$28,421
Champaign County	38,754	82.0%	100.0%	82.0%	90.405	\$26,515
Clark County	134,585	99.3%	100.0%	99.3%	338.602	\$25,948
Clermont County	205,466	99.3%	100.0%	99.3%	454.470	\$32,900
Clinton County	42,057	77.4%	100.0%	77.4%	102.908	\$26,861
Columbiana County	102,665	82.9%	100.0%	82.9%	193.018	\$25,853
Coshocton County	36,629	68.3%	99.9%	68.2%	64.955	\$22,471
Crawford County	41,550	99.4%	100.0%	99.4%	103.413	\$24,513
Cuyahoga County	1,243,857	99.3%	100.0%	99.3%	2,720.651	\$31,804
Darke County	51,323	91.5%	100.0%	91.5%	85.810	\$26,262
Defiance County	38,165	99.7%	100.0%	99.7%	92.755	\$28,491
Delaware County	204,801	97.4%	100.0%	97.4%	462.203	\$47,183
Erie County	74,615	97.1%	99.9%	96.9%	296.612	\$31,677
Fairfield County	155,774	96.8%	100.0%	96.8%	308.824	\$31,136
Fayette County	28,666	88.4%	100.0%	88.4%	70.544	\$24,931
Franklin County	1,310,274	100.0%	100.0%	100.0%	2,462.050	\$32,552
Fulton County	42,276	99.7%	100.0%	99.7%	104.271	\$28,411
Gallia County	29,979	85.7%	99.5%	85.5%	64.260	\$22,588
Geauga County	94,029	88.5%	100.0%	88.5%	234.976	\$42,149
Greene County	167,994	95.9%	100.0%	95.9%	406.048	\$34,682
Guernsey County	39,022	65.6%	100.0%	65.6%	74.718	\$23,599
Hamilton County	816,681	100.0%	100.0%	100.0%	2,011.974	\$34,125
Hancock County	75,927	95.5%	100.0%	95.5%	142.892	\$30,794
Hardin County	31,478	85.6%	100.0%	85.6%	66.917	\$22,329
Harrison County	15,174	50.5%	100.0%	50.5%	37.714	\$24,108
Henry County	27,086	100.0%	100.0%	100.0%	65.109	\$28,328
Highland County	43,058	71.8%	99.9%	71.7%	77.851	\$22,624
Hocking County	28,385	58.8%	99.7%	58.8%	67.371	\$24,138
Holmes County	43,892	60.8%	99.8%	60.6%	103.878	\$22,923
Huron County	58,504	88.2%	100.0%	88.2%	119.033	\$25,375
Jackson County	32,384	70.4%	100.0%	70.4%	77.049	\$22,117
Jefferson County	65,767	90.2%	100.0%	90.2%	161.064	\$25,658

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Knox County	61,889	76.5%	100.0%	76.5%	117.773	\$25,589
Lake County	230,512	99.9%	100.0%	99.9%	1,013.272	\$33,737
Lawrence County	59,866	85.9%	97.9%	85.7%	132.047	\$23,692
Licking County	175,765	95.1%	100.0%	95.1%	257.531	\$30,338
Logan County	45,358	84.9%	100.0%	84.9%	98.942	\$27,840
Lorain County	309,455	91.0%	100.0%	91.0%	630.124	\$29,777
Lucas County	429,899	98.9%	100.0%	98.9%	1,261.237	\$28,361
Madison County	44,413	93.3%	100.0%	93.3%	95.332	\$28,331
Mahoning County	229,642	98.6%	100.0%	98.6%	557.894	\$27,429
Marion County	65,253	96.3%	100.0%	96.3%	161.614	\$22,878
Medina County	179,133	98.3%	100.0%	98.3%	425.133	\$35,979
Meigs County	23,106	62.1%	99.7%	62.1%	53.723	\$23,897
Mercer County	40,958	100.0%	100.0%	100.0%	88.568	\$28,513
Miami County	106,217	95.8%	100.0%	95.8%	261.245	\$29,703
Monroe County	13,790	21.1%	98.7%	21.1%	30.260	\$25,141
Montgomery County	532,331	99.8%	100.0%	99.8%	1,153.347	\$28,807
Morgan County	14,604	56.8%	98.4%	56.1%	35.070	\$22,454
Morrow County	35,112	74.2%	100.0%	74.2%	86.466	\$27,212
Muskingum County	86,183	88.7%	99.7%	88.5%	129.681	\$24,080
Noble County	14,354	64.6%	99.7%	64.6%	36.064	\$24,616
Ottawa County	40,767	100.0%	99.5%	99.5%	159.923	\$33,081
Paulding County	18,760	100.0%	100.0%	100.0%	45.049	\$25,918
Perry County	36,033	71.2%	99.8%	71.2%	88.322	\$22,659
Pickaway County	58,077	87.3%	100.0%	87.3%	115.848	\$26,515
Pike County	28,067	83.4%	100.0%	83.4%	63.748	\$22,301
Portage County	162,925	96.7%	100.0%	96.7%	334.287	\$29,439
Preble County	40,997	98.6%	100.0%	98.6%	96.664	\$27,031
Putnam County	33,780	99.8%	100.0%	99.8%	70.007	\$30,064
Richland County	121,094	95.0%	100.0%	95.0%	244.502	\$24,545
Ross County	76,931	92.8%	100.0%	92.8%	111.626	\$23,756
Sandusky County	58,799	100.0%	100.0%	100.0%	143.955	\$26,256
Scioto County	75,502	85.2%	99.4%	85.0%	123.731	\$23,042
Seneca County	55,207	96.4%	100.0%	96.4%	100.191	\$25,555
Shelby County	48,627	92.5%	100.0%	92.5%	119.279	\$29,008
Stark County	371,574	99.3%	100.0%	99.3%	645.912	\$28,434
Summit County	541,911	100.0%	100.0%	100.0%	1,312.934	\$32,055
Trumbull County	198,627	96.8%	100.0%	96.8%	321.249	\$26,116
Tuscarawas County	92,176	86.2%	100.0%	86.2%	162.386	\$26,034
Union County	57,834	81.0%	100.0%	81.0%	133.959	\$34,691

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Van Wert County	28,280	100.0%	100.0%	100.0%	69.117	\$26,698
Vinton County	13,139	38.7%	99.8%	38.7%	31.863	\$20,823
Warren County	232,163	97.7%	100.0%	97.7%	578.507	\$39,448
Washington County	60,155	79.8%	99.4%	79.8%	95.186	\$27,860
Wayne County	115,967	91.2%	100.0%	91.2%	208.976	\$26,822
Williams County	36,804	98.8%	100.0%	98.8%	87.428	\$25,428
Wood County	130,695	100.0%	100.0%	100.0%	211.753	\$31,324
Wyandot County	21,935	84.4%	100.0%	84.4%	53.912	\$27,037
Oklahoma						
Adair County	22,082	61.9%	100.0%	61.9%	38.505	\$16,851
Alfalfa County	5,754	100.0%	100.0%	100.0%	6.641	\$27,871
Atoka County	13,838	32.3%	100.0%	32.3%	14.185	\$20,733
Beaver County	5,319	80.3%	99.9%	80.2%	2.931	\$24,610
Beckham County	21,709	69.0%	100.0%	69.0%	24.073	\$24,049
Blaine County	9,485	75.0%	100.0%	75.0%	10.216	\$25,708
Bryan County	47,192	79.3%	100.0%	79.3%	52.176	\$23,453
Caddo County	28,977	59.2%	100.0%	59.2%	22.669	\$22,062
Canadian County	144,388	89.3%	100.0%	89.3%	161.035	\$30,545
Carter County	48,177	71.6%	100.0%	71.6%	58.597	\$25,110
Cherokee County	48,675	70.5%	100.0%	70.5%	64.951	\$20,575
Choctaw County	14,668	18.8%	100.0%	18.8%	19.041	\$21,329
Cimarron County	2,153	74.5%	98.7%	73.6%	1.173	\$27,929
Cleveland County	281,657	81.6%	100.0%	81.6%	522.781	\$30,507
Coal County	5,520	42.2%	100.0%	42.2%	10.684	\$24,399
Comanche County	120,422	92.2%	100.0%	92.2%	112.619	\$26,149
Cotton County	5,776	44.0%	100.0%	44.0%	9.130	\$22,596
Craig County	14,306	98.9%	100.0%	98.9%	18.790	\$20,704
Creek County	71,604	68.7%	100.0%	68.7%	75.361	\$25,150
Custer County	29,032	82.4%	100.0%	82.4%	29.360	\$25,569
Delaware County	42,733	87.6%	100.0%	87.6%	57.890	\$22,976
Dewey County	4,894	21.6%	100.0%	21.6%	4.897	\$27,432
Ellis County	3,952	57.5%	100.0%	57.5%	3.209	\$27,120
Garfield County	60,913	93.9%	100.0%	93.9%	57.548	\$26,454
Garvin County	27,811	56.5%	100.0%	56.5%	34.672	\$23,020
Grady County	55,544	60.8%	100.0%	60.8%	50.472	\$28,577
Grant County	4,326	100.0%	100.0%	100.0%	4.322	\$29,060
Greer County	5,821	49.9%	100.0%	49.9%	9.105	\$18,292
Harmon County	2,664	61.1%	100.0%	61.1%	4.959	\$22,588
Harper County	3,797	77.5%	100.0%	77.5%	3.654	\$24,714

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Haskell County	12,668	39.6%	100.0%	39.6%	21.973	\$21,280
Hughes County	13,335	43.7%	100.0%	43.7%	16.572	\$20,438
Jackson County	24,949	78.2%	100.0%	78.2%	31.083	\$23,226
Jefferson County	6,123	30.9%	100.0%	30.9%	8.069	\$19,155
Johnston County	10,949	51.2%	100.0%	51.2%	17.030	\$20,930
Kay County	44,161	87.9%	100.0%	87.9%	48.015	\$24,853
Kingfisher County	15,816	77.5%	100.0%	77.5%	17.609	\$32,049
Kiowa County	8,729	70.7%	100.0%	70.7%	8.598	\$20,888
Latimer County	10,231	51.1%	97.0%	49.9%	14.169	\$23,842
Le Flore County	49,980	52.1%	99.9%	52.1%	31.450	\$20,656
Lincoln County	34,920	92.1%	100.0%	92.1%	36.669	\$24,454
Logan County	47,287	100.0%	100.0%	100.0%	63.572	\$29,387
Love County	10,133	79.2%	100.0%	79.2%	19.714	\$21,704
Major County	7,644	43.7%	100.0%	43.7%	8.004	\$28,801
Marshall County	16,806	77.5%	100.0%	77.5%	45.289	\$23,872
Mayes County	41,106	88.4%	100.0%	88.4%	62.720	\$23,861
McClain County	39,968	71.7%	100.0%	71.7%	70.033	\$29,797
McCurtain County	32,703	28.2%	96.4%	27.1%	17.677	\$19,692
McIntosh County	19,813	39.0%	100.0%	39.0%	32.034	\$22,922
Murray County	13,952	63.8%	100.0%	63.8%	33.502	\$26,837
Muskogee County	68,362	73.3%	100.0%	73.3%	84.351	\$22,775
Noble County	11,289	94.6%	100.0%	94.6%	15.424	\$27,828
Nowata County	10,218	85.0%	100.0%	85.0%	18.060	\$22,147
Okfuskee County	12,098	35.6%	100.0%	35.6%	19.558	\$17,281
Oklahoma County	792,562	96.1%	100.0%	96.1%	1,118.145	\$30,398
Okmulgee County	38,335	62.0%	100.0%	62.0%	54.973	\$22,400
Osage County	47,014	75.1%	100.0%	75.1%	20.929	\$24,363
Ottawa County	31,175	99.3%	100.0%	99.3%	66.214	\$20,209
Pawnee County	16,390	28.4%	100.0%	28.4%	28.858	\$23,916
Payne County	82,033	100.0%	100.0%	100.0%	119.808	\$23,589
Pittsburg County	43,877	69.2%	100.0%	69.2%	33.610	\$24,750
Pontotoc County	38,247	73.3%	100.0%	73.3%	53.089	\$24,683
Pottawatomie County	72,672	84.8%	100.0%	84.8%	92.262	\$23,155
Pushmataha County	11,179	29.8%	80.5%	24.5%	8.009	\$23,346
Roger Mills County	3,656	12.9%	100.0%	12.9%	3.204	\$26,431
Rogers County	91,977	99.3%	100.0%	99.3%	136.135	\$30,886
Seminole County	24,578	56.8%	100.0%	56.8%	38.838	\$20,460
Sequoyah County	41,179	31.8%	100.0%	31.8%	61.163	\$20,020
Stephens County	43,265	73.6%	100.0%	73.6%	49.716	\$25,374

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Texas County	20,455	88.0%	100.0%	88.0%	10.021	\$22,120
Tillman County	7,348	84.7%	100.0%	84.7%	8.435	\$21,673
Tulsa County	648,342	98.5%	100.0%	98.5%	1,136.951	\$30,894
Wagoner County	80,103	88.1%	100.0%	88.1%	142.645	\$28,286
Washington County	51,843	89.3%	100.0%	89.3%	124.786	\$30,267
Washita County	11,127	66.7%	100.0%	66.7%	11.092	\$26,744
Woods County	8,897	85.8%	100.0%	85.8%	6.916	\$27,232
Woodward County	20,222	19.1%	100.0%	19.1%	16.277	\$28,248
Oregon						
Baker County	16,006	71.8%	97.1%	70.9%	5.216	\$26,152
Benton County	92,099	99.5%	99.9%	99.4%	136.253	\$32,297
Clackamas County	416,064	95.0%	99.8%	94.9%	222.456	\$39,619
Clatsop County	39,763	82.1%	99.9%	82.1%	47.962	\$28,750
Columbia County	52,377	76.6%	99.6%	76.6%	79.678	\$29,317
Coos County	64,389	88.5%	99.0%	88.4%	40.340	\$26,610
Crook County	23,862	91.6%	98.8%	91.6%	8.010	\$25,128
Curry County	22,811	93.7%	98.7%	93.4%	14.016	\$28,365
Deschutes County	191,986	97.8%	100.0%	97.8%	63.610	\$34,187
Douglas County	110,282	91.2%	98.6%	91.1%	21.898	\$25,602
Gilliam County	1,894	54.3%	99.8%	54.3%	1.572	\$25,649
Grant County	7,176	59.2%	86.3%	58.9%	1.585	\$26,029
Harney County	7,329	33.2%	98.1%	33.2%	0.723	\$25,871
Hood River County	23,428	96.9%	100.0%	96.9%	44.886	\$32,581
Jackson County	219,563	93.4%	98.9%	93.1%	78.879	\$28,728
Jefferson County	24,190	93.0%	99.1%	93.0%	13.584	\$22,492
Josephine County	87,392	78.5%	99.4%	78.5%	53.299	\$24,763
Klamath County	67,653	85.0%	99.9%	85.0%	11.387	\$24,296
Lake County	7,879	47.8%	98.9%	47.6%	0.968	\$22,469
Lane County	379,606	92.4%	99.2%	92.3%	83.373	\$28,070
Lincoln County	49,387	93.4%	98.5%	92.5%	50.407	\$27,072
Linn County	127,335	96.7%	99.5%	96.6%	55.602	\$25,781
Malheur County	30,725	63.5%	99.1%	63.3%	3.107	\$18,700
Marion County	346,868	98.7%	99.8%	98.6%	293.378	\$26,143
Morrow County	11,371	69.7%	99.3%	69.7%	5.597	\$22,599
Multnomah County	811,864	97.8%	100.0%	97.8%	1,882.378	\$36,868
Polk County	85,232	97.4%	99.1%	97.3%	115.056	\$27,492
Sherman County	1,708	58.9%	100.0%	58.9%	2.074	\$33,821
Tillamook County	26,787	92.4%	95.9%	90.9%	24.295	\$27,122
Umatilla County	77,514	86.3%	99.5%	86.3%	24.106	\$23,464

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Union County	26,461	71.3%	99.7%	71.3%	12.993	\$27,425
Wallowa County	7,081	90.6%	94.0%	88.7%	2.251	\$28,960
Wasco County	26,505	84.8%	99.7%	84.8%	11.129	\$26,249
Washington County	597,661	96.6%	99.9%	96.6%	825.236	\$37,657
Wheeler County	1,366	0.0%	63.0%	0.0%	0.797	\$21,375
Yamhill County	106,995	88.9%	99.6%	88.9%	149.464	\$29,141
Pennsylvania						
Adams County	102,811	94.2%	99.8%	94.1%	198.221	\$30,534
Allegheny County	1,218,452	99.3%	100.0%	99.3%	1,668.942	\$36,907
Armstrong County	65,263	94.8%	99.9%	94.7%	99.912	\$26,465
Beaver County	164,742	98.3%	100.0%	98.3%	378.968	\$30,016
Bedford County	48,176	74.9%	99.6%	74.6%	47.591	\$25,163
Berks County	420,149	97.9%	100.0%	97.9%	490.538	\$30,187
Blair County	122,492	85.7%	99.8%	85.6%	232.963	\$26,648
Bradford County	60,833	68.2%	99.5%	68.0%	53.018	\$27,319
Bucks County	628,195	98.6%	100.0%	98.6%	1,039.529	\$44,103
Butler County	187,888	96.3%	100.0%	96.3%	238.254	\$36,383
Cambria County	131,730	93.3%	100.0%	93.3%	191.370	\$25,779
Cameron County	4,492	94.1%	91.2%	88.6%	11.337	\$25,898
Carbon County	64,227	97.4%	100.0%	97.4%	168.371	\$26,867
Centre County	162,805	92.7%	100.0%	92.7%	146.682	\$29,432
Chester County	522,039	98.9%	100.0%	98.9%	695.581	\$48,225
Clarion County	38,778	84.2%	99.6%	83.8%	64.540	\$24,293
Clearfield County	79,388	80.3%	100.0%	80.3%	69.351	\$23,743
Clinton County	38,684	91.2%	99.9%	91.2%	43.564	\$23,780
Columbia County	65,456	78.7%	100.0%	78.7%	135.489	\$25,794
Crawford County	85,063	77.5%	100.0%	77.5%	84.030	\$25,731
Cumberland County	251,423	95.4%	100.0%	95.4%	460.938	\$36,012
Dauphin County	277,097	98.3%	100.0%	98.3%	527.757	\$32,485
Delaware County	564,751	99.0%	100.0%	99.0%	3,071.913	\$38,251
Elk County	30,169	95.8%	99.7%	95.5%	36.464	\$28,476
Erie County	272,061	94.4%	100.0%	94.4%	340.436	\$27,349
Fayette County	130,441	88.2%	100.0%	88.2%	165.044	\$25,876
Forest County	7,279	72.2%	99.8%	72.2%	17.039	\$15,360
Franklin County	154,834	91.9%	99.8%	91.9%	200.504	\$29,748
Fulton County	14,523	44.3%	100.0%	44.3%	33.192	\$26,082
Greene County	36,506	79.3%	97.0%	78.0%	63.384	\$26,902
Huntingdon County	45,168	82.4%	99.1%	82.0%	51.642	\$24,159
Indiana County	84,501	81.7%	100.0%	81.7%	102.174	\$25,276

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Jefferson County	43,641	88.5%	99.8%	88.3%	66.890	\$24,974
Juniata County	24,704	84.7%	99.9%	84.7%	63.125	\$25,057
Lackawanna County	210,793	89.1%	100.0%	89.1%	459.166	\$28,427
Lancaster County	543,557	95.8%	100.0%	95.8%	575.918	\$30,778
Lawrence County	86,184	95.8%	100.0%	95.8%	240.620	\$27,734
Lebanon County	141,314	97.5%	100.0%	97.5%	390.551	\$28,560
Lehigh County	368,100	99.9%	100.0%	99.9%	1,066.443	\$32,252
Luzerne County	317,646	96.4%	100.0%	96.4%	356.772	\$27,919
Lycoming County	113,664	91.3%	99.7%	91.1%	92.515	\$26,867
McKean County	40,968	86.2%	99.9%	86.2%	41.838	\$25,517
Mercer County	110,683	90.8%	100.0%	90.8%	164.566	\$26,561
Mifflin County	46,222	94.2%	99.7%	93.9%	112.454	\$24,407
Monroe County	169,505	99.0%	100.0%	99.0%	278.660	\$28,486
Montgomery County	828,588	98.9%	100.0%	98.9%	1,715.362	\$46,776
Montour County	18,240	71.9%	100.0%	71.9%	140.047	\$34,095
Northampton County	304,806	100.0%	100.0%	100.0%	824.533	\$34,017
Northumberland County	91,083	85.1%	100.0%	85.1%	198.712	\$25,506
Perry County	46,139	87.2%	100.0%	87.2%	83.669	\$29,685
Philadelphia County	1,584,133	99.1%	100.0%	99.1%	11,812.945	\$26,557
Pike County	55,933	98.9%	100.0%	98.9%	102.637	\$33,111
Potter County	16,622	69.2%	99.6%	69.2%	15.372	\$24,087
Schuylkill County	142,067	92.5%	100.0%	92.5%	182.457	\$26,070
Snyder County	40,540	70.1%	100.0%	70.1%	123.332	\$26,415
Somerset County	73,952	83.0%	100.0%	83.0%	68.833	\$25,294
Sullivan County	6,071	33.1%	97.5%	32.5%	13.493	\$28,665
Susquehanna County	40,589	53.2%	100.0%	53.2%	49.292	\$29,630
Tioga County	40,763	85.8%	99.6%	85.4%	35.953	\$26,059
Union County	44,783	71.6%	100.0%	71.6%	141.726	\$25,606
Venango County	51,266	90.8%	100.0%	90.8%	76.030	\$25,837
Warren County	39,498	72.1%	99.6%	72.1%	44.674	\$27,593
Washington County	207,346	94.0%	100.0%	94.0%	241.947	\$34,244
Wayne County	51,276	64.7%	99.9%	64.7%	70.667	\$26,570
Westmoreland County	350,611	97.6%	100.0%	97.6%	341.209	\$32,916
Wyoming County	27,046	88.9%	99.8%	88.9%	68.070	\$28,810
York County	448,266	96.9%	100.0%	96.9%	495.770	\$31,468
Rhode Island						
Bristol County	48,649	100.0%	100.0%	100.0%	2,013.269	\$43,617
Kent County	163,861	98.6%	100.0%	98.6%	972.309	\$38,039
Newport County	82,542	95.7%	100.0%	95.7%	806.185	\$45,442

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Providence County	636,084	98.8%	100.0%	98.8%	1,553.312	\$30,356
Washington County	126,179	97.7%	100.0%	97.7%	383.249	\$41,000
South Carolina						
Abbeville County	24,541	95.8%	100.0%	95.8%	50.034	\$21,185
Aiken County	169,399	62.4%	100.0%	62.4%	158.164	\$27,526
Allendale County	8,903	14.8%	99.8%	14.8%	21.816	\$14,744
Anderson County	200,482	95.2%	100.0%	95.2%	280.227	\$25,807
Bamberg County	14,275	33.2%	100.0%	33.2%	36.289	\$18,873
Barnwell County	21,112	46.6%	100.0%	46.6%	38.498	\$19,620
Beaufort County	188,715	87.2%	100.0%	87.2%	327.471	\$36,306
Berkeley County	221,064	91.6%	100.0%	91.6%	201.176	\$28,331
Calhoun County	14,520	73.9%	100.0%	73.9%	38.095	\$25,953
Charleston County	405,898	94.3%	100.0%	94.3%	443.077	\$37,801
Cherokee County	57,078	87.4%	100.0%	87.4%	145.363	\$21,432
Chester County	32,251	82.2%	100.0%	82.2%	55.542	\$21,240
Chesterfield County	45,754	56.5%	100.0%	56.5%	57.259	\$20,676
Clarendon County	33,700	93.6%	100.0%	93.6%	55.525	\$20,967
Colleton County	37,660	87.6%	100.0%	87.6%	35.646	\$21,003
Darlington County	66,802	88.7%	100.0%	88.7%	119.044	\$21,587
Dillon County	30,599	75.9%	100.0%	75.9%	75.577	\$16,473
Dorchester County	160,604	92.0%	100.0%	92.0%	280.172	\$28,704
Edgefield County	27,048	67.1%	100.0%	67.1%	54.052	\$25,410
Fairfield County	22,402	65.5%	100.0%	65.5%	32.643	\$22,527
Florence County	138,159	94.3%	100.0%	94.3%	172.706	\$25,149
Georgetown County	62,249	88.2%	100.0%	88.2%	76.516	\$29,929
Greenville County	514,205	98.3%	100.0%	98.3%	654.938	\$30,776
Greenwood County	70,741	90.7%	100.0%	90.7%	155.568	\$23,945
Hampton County	19,351	52.4%	100.0%	52.4%	34.562	\$17,523
Horry County	344,147	99.2%	100.0%	99.2%	303.508	\$26,917
Jasper County	28,968	63.6%	100.0%	63.6%	44.204	\$22,406
Kershaw County	65,590	82.8%	100.0%	82.8%	90.274	\$24,253
Lancaster County	95,376	87.4%	100.0%	87.4%	173.676	\$29,271
Laurens County	66,993	84.0%	100.0%	84.0%	93.854	\$21,743
Lee County	17,142	85.9%	100.0%	85.9%	41.791	\$17,544
Lexington County	295,024	96.7%	100.0%	96.7%	422.119	\$30,316
Marion County	31,039	70.4%	100.0%	70.4%	63.445	\$19,992
Marlboro County	26,398	0.6%	100.0%	0.6%	55.033	\$17,034
McCormick County	9,410	40.2%	98.4%	39.4%	26.202	\$24,419
Newberry County	38,520	75.3%	100.0%	75.3%	61.139	\$23,344

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Oconee County	78,374	80.4%	100.0%	80.4%	125.131	\$28,076
Orangeburg County	86,934	56.2%	100.0%	56.2%	78.595	\$19,992
Pickens County	124,931	93.9%	100.0%	93.9%	251.671	\$24,803
Richland County	414,576	97.5%	100.0%	97.5%	547.607	\$29,010
Saluda County	20,544	55.2%	100.0%	55.2%	45.373	\$22,174
Spartanburg County	313,876	95.4%	100.0%	95.4%	388.496	\$26,072
Sumter County	106,512	96.8%	100.0%	96.8%	160.153	\$22,272
Union County	27,410	79.5%	100.0%	79.5%	53.309	\$22,372
Williamsburg County	30,606	82.1%	100.0%	82.1%	32.763	\$18,454
York County	274,113	96.3%	100.0%	96.3%	402.755	\$32,227
South Dakota						
Aurora County	2,798	73.3%	100.0%	73.3%	3.950	\$31,468
Beadle County	18,868	86.2%	100.0%	86.2%	14.990	\$26,316
Bennett County	3,468	90.5%	100.0%	90.5%	2.927	\$16,625
Bon Homme County	6,980	66.9%	100.0%	66.9%	12.382	\$23,525
Brookings County	35,203	96.7%	100.0%	96.7%	44.437	\$27,968
Brown County	39,315	100.0%	100.0%	100.0%	22.951	\$31,977
Brule County	5,229	100.0%	100.0%	100.0%	6.398	\$28,292
Buffalo County	2,033	100.0%	100.0%	100.0%	4.313	\$11,471
Butte County	10,222	99.1%	100.0%	99.1%	4.543	\$26,702
Campbell County	1,377	100.0%	100.0%	100.0%	1.877	\$39,986
Charles Mix County	9,338	35.2%	100.0%	35.2%	8.509	\$21,787
Clark County	3,736	88.9%	100.0%	88.9%	3.901	\$30,339
Clay County	14,041	81.1%	100.0%	81.1%	34.065	\$26,230
Codington County	28,015	90.7%	100.0%	90.7%	40.690	\$29,992
Corson County	4,165	81.0%	90.6%	74.2%	1.686	\$15,984
Custer County	8,726	54.4%	99.6%	54.1%	5.604	\$30,439
Davison County	19,789	95.3%	100.0%	95.3%	45.434	\$29,342
Day County	5,505	90.2%	100.0%	90.2%	5.356	\$28,873
Deuel County	4,336	97.6%	100.0%	97.6%	6.963	\$29,281
Dewey County	5,902	72.7%	100.0%	72.7%	2.563	\$16,967
Douglas County	2,935	81.0%	100.0%	81.0%	6.797	\$29,458
Edmunds County	3,875	100.0%	100.0%	100.0%	3.442	\$32,492
Fall River County	6,758	90.4%	99.7%	90.4%	3.884	\$27,266
Faulk County	2,330	100.0%	100.0%	100.0%	2.373	\$29,065
Grant County	7,144	74.8%	100.0%	74.8%	10.483	\$31,453
Gregory County	4,212	91.7%	99.7%	91.3%	4.150	\$27,579
Haakon County	1,918	92.1%	99.3%	91.4%	1.059	\$24,426
Hamlin County	6,110	69.8%	100.0%	69.8%	12.046	\$27,777

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Hand County	3,262	82.9%	100.0%	82.9%	2.271	\$33,865
Hanson County	3,376	85.2%	100.0%	85.2%	7.770	\$25,039
Harding County	1,249	100.0%	99.7%	99.7%	0.468	\$31,599
Hughes County	17,650	92.7%	100.0%	92.7%	23.801	\$33,810
Hutchinson County	7,380	99.7%	100.0%	99.7%	9.079	\$27,995
Hyde County	1,282	100.0%	100.0%	100.0%	1.490	\$31,692
Jackson County	3,307	73.0%	100.0%	73.0%	1.774	\$13,595
Jerauld County	2,043	100.0%	100.0%	100.0%	3.882	\$38,650
Jones County	928	50.3%	100.0%	50.3%	0.957	\$28,850
Kingsbury County	4,919	67.4%	100.0%	67.4%	5.911	\$32,259
Lake County	13,049	99.7%	100.0%	99.7%	23.166	\$31,574
Lawrence County	25,741	93.0%	99.9%	93.0%	32.175	\$31,744
Lincoln County	58,769	90.6%	100.0%	90.6%	101.804	\$39,797
Lyman County	3,821	78.7%	99.9%	78.6%	2.327	\$22,097
Marshall County	5,104	96.7%	100.0%	96.7%	6.090	\$31,307
McCook County	5,545	80.6%	100.0%	80.6%	9.657	\$28,032
McPherson County	2,407	100.0%	100.0%	100.0%	2.118	\$27,240
Meade County	28,292	99.7%	99.9%	99.7%	8.151	\$28,654
Mellette County	2,042	57.9%	100.0%	57.9%	1.562	\$13,538
Miner County	2,213	100.0%	100.0%	100.0%	3.880	\$27,570
Minnehaha County	192,831	98.0%	100.0%	98.0%	238.904	\$30,471
Moody County	6,579	74.5%	100.0%	74.5%	12.667	\$29,142
Oglala Lakota County	14,155	71.3%	100.0%	71.3%	6.760	\$10,148
Pennington County	111,729	95.8%	99.7%	95.8%	40.240	\$30,518
Perkins County	2,922	98.9%	99.3%	98.2%	1.018	\$33,065
Potter County	2,207	100.0%	100.0%	100.0%	2.563	\$31,467
Roberts County	10,446	84.0%	100.0%	84.0%	9.487	\$26,537
Sanborn County	2,429	100.0%	100.0%	100.0%	4.266	\$32,404
Spink County	6,494	99.9%	100.0%	99.9%	4.318	\$33,597
Stanley County	3,022	93.6%	100.0%	93.6%	2.092	\$35,936
Sully County	1,392	100.0%	100.0%	100.0%	1.383	\$42,276
Todd County	10,281	63.8%	99.4%	63.8%	7.404	\$10,931
Tripp County	5,478	89.8%	100.0%	89.8%	3.397	\$26,242
Turner County	8,419	79.2%	100.0%	79.2%	13.644	\$29,465
Union County	15,598	88.2%	100.0%	88.2%	33.869	\$40,699
Walworth County	5,586	100.0%	100.0%	100.0%	7.883	\$31,302
Yankton County	22,865	91.3%	100.0%	91.3%	43.873	\$31,986
Ziebach County	2,742	97.9%	96.9%	94.7%	1.398	\$14,943
Tennessee						

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Anderson County	76,482	96.7%	98.8%	95.6%	226.841	\$27,913
Bedford County	49,032	96.9%	100.0%	96.9%	103.523	\$23,988
Benton County	16,184	71.3%	99.6%	71.3%	41.061	\$21,374
Bledsoe County	14,755	40.5%	100.0%	40.5%	36.304	\$23,453
Blount County	131,349	98.0%	99.7%	97.8%	235.095	\$29,634
Bradley County	106,727	97.7%	100.0%	97.7%	324.633	\$26,319
Campbell County	39,583	85.8%	99.1%	85.4%	82.432	\$23,064
Cannon County	14,458	99.7%	100.0%	99.7%	54.428	\$24,700
Carroll County	28,019	69.4%	100.0%	69.4%	46.757	\$22,007
Carter County	56,351	97.4%	99.2%	96.9%	165.154	\$21,963
Cheatham County	40,439	93.7%	100.0%	93.7%	133.710	\$26,719
Chester County	17,276	49.9%	100.0%	49.9%	60.461	\$21,425
Claiborne County	31,754	95.9%	99.9%	95.8%	73.068	\$20,753
Clay County	7,717	95.4%	86.0%	81.5%	32.625	\$19,512
Cocke County	35,774	75.5%	96.1%	75.5%	82.321	\$21,332
Coffee County	55,697	91.5%	100.0%	91.5%	129.843	\$25,637
Crockett County	14,328	84.4%	100.0%	84.4%	53.959	\$22,050
Cumberland County	59,672	57.6%	99.9%	57.6%	87.621	\$24,985
Davidson County	692,586	97.5%	100.0%	97.5%	1,374.090	\$34,343
DeKalb County	20,137	98.7%	100.0%	98.7%	66.165	\$25,643
Decatur County	11,706	65.5%	100.0%	65.5%	35.064	\$24,337
Dickson County	53,444	78.7%	100.0%	78.7%	109.093	\$26,093
Dyer County	37,320	91.0%	100.0%	91.0%	72.844	\$25,427
Fayette County	40,507	80.0%	100.0%	80.0%	57.474	\$31,629
Fentress County	18,217	98.9%	96.8%	95.7%	36.535	\$19,013
Franklin County	41,890	97.4%	98.9%	97.0%	75.540	\$27,027
Gibson County	49,045	79.9%	100.0%	79.9%	81.370	\$22,565
Giles County	29,503	92.1%	100.0%	92.1%	48.292	\$23,877
Grainger County	23,145	65.6%	100.0%	65.6%	82.484	\$22,151
Greene County	69,087	100.0%	100.0%	100.0%	111.043	\$23,668
Grundy County	13,346	79.6%	99.6%	79.6%	37.017	\$18,782
Hamblen County	64,568	100.0%	100.0%	100.0%	400.599	\$22,252
Hamilton County	364,283	98.8%	100.0%	98.8%	671.575	\$31,184
Hancock County	6,549	64.1%	91.4%	57.6%	29.455	\$20,578
Hardeman County	25,220	53.7%	100.0%	53.7%	37.768	\$17,352
Hardin County	25,776	64.8%	100.0%	64.8%	44.648	\$22,905
Hawkins County	56,530	75.0%	99.8%	75.0%	116.084	\$23,801
Haywood County	17,335	62.6%	100.0%	62.6%	32.517	\$22,148
Henderson County	27,847	64.0%	100.0%	64.0%	53.544	\$21,793

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Henry County	32,358	86.5%	100.0%	86.5%	57.567	\$22,727
Hickman County	25,061	61.9%	99.4%	61.8%	40.916	\$22,248
Houston County	8,262	76.6%	97.4%	74.4%	41.251	\$21,866
Humphreys County	18,486	56.5%	99.9%	56.5%	34.815	\$23,636
Jackson County	11,758	85.0%	91.4%	80.0%	38.136	\$20,276
Jefferson County	54,012	75.8%	100.0%	75.8%	197.068	\$24,855
Johnson County	17,778	93.5%	98.0%	92.5%	59.563	\$19,784
Knox County	465,285	98.3%	100.0%	98.3%	915.528	\$31,678
Lake County	7,411	62.9%	100.0%	62.9%	44.703	\$16,671
Lauderdale County	25,821	77.0%	100.0%	77.0%	54.706	\$18,128
Lawrence County	43,731	94.7%	99.9%	94.7%	70.862	\$20,752
Lewis County	12,085	88.6%	99.3%	88.0%	42.841	\$21,510
Lincoln County	34,106	96.6%	100.0%	96.6%	59.800	\$25,077
Loudon County	53,053	93.3%	100.0%	93.3%	231.455	\$30,175
Macon County	24,265	94.6%	96.1%	90.8%	79.002	\$21,972
Madison County	97,605	94.8%	100.0%	94.8%	175.197	\$25,555
Marion County	28,575	84.6%	99.4%	84.4%	57.361	\$24,714
Marshall County	33,679	91.3%	100.0%	91.3%	89.701	\$24,876
Maury County	94,337	92.9%	100.0%	92.9%	153.859	\$27,307
McMinn County	53,284	79.2%	100.0%	79.2%	123.880	\$23,842
McNairy County	25,832	51.1%	100.0%	51.1%	45.894	\$20,236
Meigs County	12,304	55.5%	100.0%	55.5%	63.058	\$23,555
Monroe County	46,356	75.4%	96.9%	74.5%	72.937	\$21,919
Montgomery County	205,938	92.4%	100.0%	92.4%	381.949	\$25,938
Moore County	6,411	98.8%	100.0%	98.8%	49.612	\$29,969
Morgan County	21,579	100.0%	98.9%	98.9%	41.325	\$19,726
Obion County	30,267	71.8%	100.0%	71.8%	55.563	\$23,141
Overton County	22,068	78.0%	98.6%	76.7%	50.909	\$20,581
Perry County	8,064	61.8%	99.7%	61.6%	19.444	\$28,270
Pickett County	5,082	95.0%	95.6%	91.5%	31.182	\$23,250
Polk County	16,898	83.0%	92.5%	77.2%	38.875	\$24,667
Putnam County	78,840	93.8%	100.0%	93.8%	196.558	\$23,873
Rhea County	33,044	84.0%	99.9%	84.0%	104.776	\$22,070
Roane County	53,140	92.3%	100.0%	92.3%	147.321	\$27,897
Robertson County	70,991	85.8%	100.0%	85.8%	149.051	\$28,425
Rutherford County	324,863	97.6%	100.0%	97.6%	524.511	\$28,883
Scott County	22,039	99.9%	98.1%	98.0%	41.404	\$19,179
Sequatchie County	14,876	61.6%	99.4%	61.1%	55.955	\$22,383
Sevier County	97,891	91.7%	99.9%	91.7%	165.217	\$23,869

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Shelby County	935,764	98.4%	100.0%	98.4%	1,226.147	\$28,828
Smith County	19,941	86.3%	96.5%	82.8%	63.448	\$26,256
Stewart County	13,561	76.0%	99.8%	76.0%	29.523	\$22,601
Sullivan County	157,667	100.0%	100.0%	100.0%	381.425	\$26,933
Sumner County	187,097	97.8%	100.0%	97.8%	353.380	\$32,297
Tipton County	61,581	90.8%	100.0%	90.8%	134.349	\$27,212
Trousdale County	11,010	82.3%	100.0%	82.3%	96.416	\$23,634
Unicoi County	17,761	99.1%	99.5%	98.9%	95.405	\$22,700
Union County	19,688	80.9%	100.0%	80.9%	88.070	\$21,677
Van Buren County	5,765	48.8%	99.7%	48.8%	21.085	\$19,560
Warren County	40,876	81.7%	100.0%	81.7%	94.472	\$22,328
Washington County	128,607	97.7%	100.0%	97.7%	393.938	\$28,261
Wayne County	16,558	61.4%	99.7%	61.3%	22.556	\$19,350
Weakley County	33,415	59.7%	100.0%	59.7%	57.576	\$21,641
White County	27,105	67.1%	100.0%	67.1%	71.959	\$20,973
Williamson County	231,723	93.3%	100.0%	93.3%	397.740	\$50,931
Wilson County	140,618	95.3%	100.0%	95.3%	246.341	\$32,850
Texas						
Anderson County	58,055	55.3%	99.9%	55.2%	54.635	\$16,868
Andrews County	18,128	82.0%	100.0%	82.0%	12.080	\$31,190
Angelina County	87,092	87.7%	100.0%	87.7%	109.168	\$22,322
Aransas County	23,792	95.9%	100.0%	95.9%	94.385	\$30,939
Archer County	8,786	99.9%	100.0%	99.9%	9.729	\$31,806
Armstrong County	1,892	59.1%	98.8%	57.9%	2.081	\$31,075
Atascosa County	50,308	95.3%	100.0%	95.3%	41.251	\$24,421
Austin County	29,989	59.2%	100.0%	59.2%	46.386	\$30,858
Bailey County	7,027	74.2%	100.0%	74.2%	8.499	\$21,449
Bandera County	22,824	72.5%	99.7%	72.4%	28.856	\$28,539
Bastrop County	86,971	100.0%	100.0%	100.0%	97.924	\$26,540
Baylor County	3,582	99.6%	100.0%	99.6%	4.129	\$25,264
Bee County	32,587	98.5%	100.0%	98.5%	37.021	\$17,390
Bell County	355,640	96.6%	100.0%	96.6%	338.377	\$25,911
Bexar County	1,986,038	99.1%	100.0%	99.1%	1,601.876	\$26,988
Blanco County	11,702	52.2%	100.0%	52.2%	16.499	\$34,925
Borden County	648	31.0%	100.0%	31.0%	0.722	\$33,781
Bosque County	18,689	100.0%	100.0%	100.0%	19.013	\$26,039
Bowie County	94,323	91.6%	100.0%	91.6%	106.579	\$25,355
Brazoria County	370,193	82.3%	100.0%	82.3%	272.662	\$33,547
Brazos County	226,719	93.1%	100.0%	93.1%	387.259	\$26,539

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Brewster County	9,267	71.9%	85.5%	66.7%	1.499	\$27,227
Briscoe County	1,516	81.3%	99.7%	81.3%	1.684	\$24,286
Brooks County	7,114	99.7%	100.0%	99.7%	7.541	\$13,800
Brown County	37,924	79.6%	100.0%	79.6%	40.155	\$25,145
Burleson County	18,388	100.0%	100.0%	100.0%	27.902	\$28,732
Burnet County	47,542	67.7%	100.0%	67.7%	47.817	\$30,507
Caldwell County	43,247	100.0%	100.0%	100.0%	79.315	\$23,881
Calhoun County	21,561	87.1%	100.0%	87.1%	42.540	\$26,596
Callahan County	13,994	65.9%	100.0%	65.9%	15.560	\$24,537
Cameron County	423,908	100.0%	99.9%	99.9%	475.808	\$16,587
Camp County	13,031	51.3%	100.0%	51.3%	66.544	\$20,898
Carson County	6,005	63.6%	100.0%	63.6%	6.526	\$32,917
Cass County	30,119	53.7%	100.0%	53.7%	32.145	\$22,545
Castro County	7,665	59.8%	100.0%	59.8%	8.570	\$20,915
Chambers County	42,453	71.8%	100.0%	71.8%	71.094	\$34,372
Cherokee County	52,592	45.1%	100.0%	45.1%	49.949	\$21,520
Childress County	7,289	93.0%	100.0%	93.0%	10.467	\$20,234
Clay County	10,456	91.1%	100.0%	91.1%	9.604	\$27,678
Cochran County	2,836	67.5%	100.0%	67.5%	3.659	\$21,014
Coke County	3,370	4.6%	99.9%	4.6%	3.697	\$24,768
Coleman County	8,397	28.5%	100.0%	28.5%	6.654	\$27,842
Collin County	1,005,082	99.3%	100.0%	99.3%	1,194.784	\$43,439
Collingsworth County	2,962	59.7%	100.0%	59.7%	3.225	\$22,880
Colorado County	21,217	78.0%	100.0%	78.0%	22.095	\$27,861
Comal County	148,337	99.1%	100.0%	99.1%	265.135	\$36,899
Comanche County	13,534	90.3%	100.0%	90.3%	14.432	\$25,127
Concho County	4,275	24.8%	100.0%	24.8%	4.345	\$17,684
Cooke County	40,574	100.0%	100.0%	100.0%	46.383	\$28,751
Coryell County	74,808	99.1%	100.0%	99.1%	71.106	\$21,507
Cottle County	1,389	86.1%	100.0%	86.1%	1.542	\$20,108
Crane County	4,792	4.3%	100.0%	4.3%	6.104	\$26,113
Crockett County	3,499	0.9%	99.9%	0.9%	1.246	\$24,852
Crosby County	5,779	69.6%	100.0%	69.6%	6.420	\$19,155
Culberson County	2,204	86.3%	100.0%	86.3%	0.578	\$15,873
Dallam County	7,200	96.3%	100.0%	96.3%	4.790	\$26,844
Dallas County	2,637,761	100.0%	100.0%	100.0%	3,027.458	\$31,219
Dawson County	12,619	70.4%	100.0%	70.4%	14.016	\$21,543
DeWitt County	20,187	88.8%	100.0%	88.8%	22.209	\$28,728
Deaf Smith County	18,760	89.4%	100.0%	89.4%	12.533	\$21,515

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Delta County	5,349	20.7%	100.0%	20.7%	20.827	\$25,004
Denton County	859,057	99.8%	100.0%	99.8%	977.943	\$39,535
Dickens County	2,249	92.8%	100.0%	92.8%	2.494	\$23,452
Dimmit County	10,308	78.5%	100.0%	78.5%	7.757	\$18,121
Donley County	3,319	43.0%	100.0%	43.0%	3.581	\$23,711
Duval County	11,212	75.8%	100.0%	75.8%	6.252	\$17,864
Eastland County	18,322	99.7%	100.0%	99.7%	19.776	\$23,940
Ector County	162,123	94.3%	100.0%	94.3%	180.601	\$28,700
Edwards County	1,928	46.8%	99.6%	46.8%	0.910	\$29,814
El Paso County	840,758	98.4%	100.0%	98.4%	830.220	\$20,763
Ellis County	179,429	100.0%	100.0%	100.0%	191.803	\$30,727
Erath County	42,445	100.0%	100.0%	100.0%	39.189	\$25,290
Falls County	17,335	96.6%	100.0%	96.6%	22.646	\$17,830
Fannin County	35,280	74.4%	100.0%	74.4%	39.603	\$24,581
Fayette County	25,349	88.5%	100.0%	88.5%	26.683	\$30,097
Fisher County	3,839	8.2%	100.0%	8.2%	4.271	\$28,355
Floyd County	5,837	49.2%	100.0%	49.2%	5.883	\$23,308
Foard County	1,200	99.3%	100.0%	99.3%	1.704	\$25,636
Fort Bend County	787,849	92.4%	100.0%	92.4%	914.529	\$39,472
Franklin County	10,766	73.9%	100.0%	73.9%	37.856	\$25,602
Freestone County	19,808	78.2%	100.0%	78.2%	22.567	\$24,083
Frio County	19,815	98.7%	100.0%	98.7%	17.481	\$18,288
Gaines County	20,900	71.8%	100.0%	71.8%	13.911	\$22,710
Galveston County	337,890	93.8%	99.9%	93.8%	893.043	\$35,448
Garza County	6,578	89.9%	100.0%	89.9%	7.363	\$19,177
Gillespie County	26,804	95.2%	100.0%	95.2%	25.329	\$33,515
Glasscock County	1,388	76.5%	100.0%	76.5%	1.542	\$30,902
Goliad County	7,584	65.8%	100.0%	65.8%	8.901	\$29,918
Gonzales County	20,826	99.8%	100.0%	99.8%	19.524	\$26,618
Gray County	21,895	86.2%	100.0%	86.2%	23.645	\$24,911
Grayson County	133,988	100.0%	100.0%	100.0%	143.640	\$27,276
Gregg County	123,707	92.3%	100.0%	92.3%	452.637	\$25,839
Grimes County	28,360	50.5%	100.0%	50.5%	36.015	\$23,513
Guadalupe County	163,694	100.0%	100.0%	100.0%	230.134	\$30,817
Hale County	33,830	88.8%	100.0%	88.8%	33.672	\$19,854
Hall County	3,028	56.5%	100.0%	56.5%	3.427	\$22,846
Hamilton County	8,484	97.3%	100.0%	97.3%	10.149	\$28,074
Hansford County	5,463	84.7%	99.9%	84.7%	5.939	\$20,127
Hardeman County	3,922	12.7%	100.0%	12.7%	5.642	\$22,938

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Hardin County	57,207	78.5%	100.0%	78.5%	64.237	\$29,108
Harris County	4,698,612	94.4%	100.0%	94.4%	2,758.247	\$31,901
Harrison County	66,726	78.4%	100.0%	78.4%	74.144	\$25,418
Hartley County	5,619	89.0%	100.0%	89.0%	3.843	\$20,480
Haskell County	5,813	95.9%	100.0%	95.9%	6.436	\$21,308
Hays County	222,564	95.8%	100.0%	95.8%	328.276	\$30,715
Hemphill County	3,825	1.2%	99.9%	1.2%	4.221	\$26,781
Henderson County	82,294	83.2%	100.0%	83.2%	94.185	\$25,280
Hidalgo County	865,936	99.7%	100.0%	99.7%	551.248	\$16,490
Hill County	36,351	100.0%	100.0%	100.0%	37.911	\$24,745
Hockley County	22,980	68.8%	100.0%	68.8%	25.297	\$23,440
Hood County	60,535	100.0%	100.0%	100.0%	143.911	\$32,727
Hopkins County	36,810	62.7%	100.0%	62.7%	47.981	\$26,267
Houston County	23,169	59.8%	99.7%	59.8%	18.823	\$18,080
Howard County	36,459	93.4%	100.0%	93.4%	40.474	\$23,784
Hudspeth County	4,795	64.3%	98.8%	63.8%	1.049	\$14,190
Hunt County	96,491	70.1%	100.0%	70.1%	114.827	\$25,077
Hutchinson County	21,198	90.6%	100.0%	90.6%	23.887	\$24,725
Irion County	1,522	0.0%	99.5%	0.0%	1.447	\$31,449
Jack County	8,843	99.8%	100.0%	99.8%	9.711	\$25,626
Jackson County	14,874	70.7%	100.0%	70.7%	17.933	\$26,329
Jasper County	35,872	35.3%	100.0%	35.3%	38.209	\$25,004
Jeff Davis County	2,252	28.5%	91.8%	28.5%	0.994	\$26,053
Jefferson County	255,001	93.9%	100.0%	93.9%	290.999	\$26,205
Jim Hogg County	5,248	97.4%	100.0%	97.4%	4.619	\$17,798
Jim Wells County	40,822	100.0%	100.0%	100.0%	47.195	\$21,274
Johnson County	171,360	100.0%	100.0%	100.0%	236.459	\$27,667
Jones County	19,817	44.7%	100.0%	44.7%	21.342	\$17,673
Karnes County	15,649	100.0%	100.0%	100.0%	20.934	\$26,875
Kaufman County	128,614	94.2%	100.0%	94.2%	164.742	\$27,411
Kendall County	45,641	92.1%	100.0%	92.1%	68.897	\$43,241
Kenedy County	441	21.1%	100.0%	21.1%	0.302	\$15,820
Kent County	726	83.7%	100.0%	83.7%	0.804	\$29,503
Kerr County	52,405	95.7%	100.0%	95.7%	47.498	\$30,498
Kimble County	4,362	56.7%	100.0%	56.7%	3.487	\$28,899
King County	277	49.5%	99.6%	49.5%	0.304	\$31,564
Kinney County	3,767	95.4%	99.9%	95.3%	2.770	\$20,323
Kleberg County	31,129	96.9%	100.0%	96.9%	35.321	\$21,986
Knox County	3,653	99.9%	100.0%	99.9%	4.295	\$21,796

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
La Salle County	7,531	73.6%	100.0%	73.6%	5.066	\$25,129
Lamar County	49,728	99.5%	100.0%	99.5%	54.815	\$23,833
Lamb County	13,158	75.6%	100.0%	75.6%	12.948	\$21,506
Lampasas County	21,229	99.8%	100.0%	99.8%	29.781	\$28,158
Lavaca County	20,110	90.5%	100.0%	90.5%	20.738	\$31,670
Lee County	17,144	100.0%	100.0%	100.0%	27.255	\$25,876
Leon County	17,270	59.2%	98.6%	58.1%	16.093	\$32,130
Liberty County	86,323	57.2%	100.0%	57.2%	74.518	\$22,757
Limestone County	23,519	76.0%	100.0%	76.0%	25.980	\$21,822
Lipscomb County	3,355	74.9%	100.0%	74.9%	3.599	\$28,491
Live Oak County	12,166	100.0%	100.0%	100.0%	11.701	\$24,244
Llano County	21,646	5.9%	100.0%	5.9%	23.175	\$35,822
Loving County	152	19.7%	100.0%	19.7%	0.227	\$23,546
Lubbock County	307,411	95.5%	100.0%	95.5%	343.246	\$27,089
Lynn County	5,877	80.5%	100.0%	80.5%	6.590	\$25,279
Madison County	14,422	16.0%	100.0%	16.0%	30.944	\$17,856
Marion County	9,928	60.4%	100.0%	60.4%	26.066	\$27,052
Martin County	5,753	81.8%	100.0%	81.8%	6.288	\$29,225
Mason County	4,280	68.6%	100.0%	68.6%	4.608	\$25,602
Matagorda County	36,552	71.7%	100.0%	71.7%	33.221	\$24,376
Maverick County	58,485	94.2%	100.0%	94.2%	45.718	\$16,891
McCulloch County	7,987	3.0%	100.0%	3.0%	7.495	\$24,409
McLennan County	254,601	100.0%	100.0%	100.0%	245.493	\$24,826
McMullen County	749	98.3%	100.0%	98.3%	0.657	\$32,556
Medina County	50,919	76.6%	100.0%	76.6%	38.419	\$26,274
Menard County	2,139	2.6%	100.0%	2.6%	2.371	\$25,067
Midland County	172,578	99.1%	100.0%	99.1%	191.690	\$39,179
Milam County	25,131	100.0%	100.0%	100.0%	24.713	\$24,015
Mills County	4,921	89.9%	100.0%	89.9%	6.577	\$24,274
Mitchell County	8,145	52.3%	100.0%	52.3%	8.940	\$20,896
Montague County	19,596	98.5%	100.0%	98.5%	21.050	\$28,457
Montgomery County	590,919	93.3%	100.0%	93.3%	567.245	\$39,618
Moore County	21,485	89.6%	100.0%	89.6%	23.880	\$21,650
Morris County	12,339	69.4%	100.0%	69.4%	48.967	\$23,438
Motley County	1,234	89.6%	99.8%	89.6%	1.247	\$26,103
Nacogdoches County	65,711	83.1%	100.0%	83.1%	69.423	\$22,580
Navarro County	49,564	99.9%	100.0%	99.9%	49.091	\$23,422
Newton County	13,746	26.7%	100.0%	26.7%	14.722	\$21,144
Nolan County	14,751	77.8%	100.0%	77.8%	16.174	\$25,820

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Nueces County	362,264	99.5%	100.0%	99.4%	432.047	\$27,649
Ochiltree County	9,947	87.8%	100.0%	87.8%	10.840	\$24,260
Oldham County	2,131	52.8%	100.0%	52.8%	1.420	\$24,151
Orange County	83,572	88.5%	100.0%	88.5%	250.464	\$28,826
Palo Pinto County	28,875	100.0%	100.0%	100.0%	30.338	\$24,983
Panola County	23,148	50.8%	100.0%	50.8%	28.872	\$26,403
Parker County	138,370	100.0%	100.0%	100.0%	153.153	\$34,705
Parmer County	9,864	51.9%	100.0%	51.9%	11.199	\$23,686
Pecos County	15,673	71.7%	99.8%	71.7%	3.290	\$20,688
Polk County	50,031	50.6%	100.0%	50.6%	47.329	\$24,686
Potter County	119,648	96.9%	100.0%	96.9%	131.717	\$22,267
Presidio County	6,948	30.8%	96.2%	30.3%	1.802	\$16,066
Rains County	12,159	61.4%	100.0%	61.4%	52.991	\$26,165
Randall County	136,258	96.8%	100.0%	96.8%	149.481	\$33,814
Reagan County	3,741	1.6%	100.0%	1.6%	3.183	\$25,397
Real County	3,478	73.4%	97.8%	72.2%	4.974	\$21,109
Red River County	12,175	92.9%	100.0%	92.9%	11.745	\$21,666
Reeves County	15,695	67.1%	100.0%	67.1%	5.956	\$20,876
Refugio County	7,032	74.7%	100.0%	74.7%	9.127	\$23,810
Roberts County	903	66.6%	100.0%	66.6%	0.977	\$31,632
Robertson County	17,283	52.6%	100.0%	52.6%	20.198	\$25,465
Rockwall County	100,641	97.8%	100.0%	97.8%	792.227	\$39,295
Runnels County	10,234	76.6%	100.0%	76.6%	9.738	\$23,042
Rusk County	54,446	57.5%	100.0%	57.5%	58.923	\$24,842
Sabine County	10,589	63.2%	99.8%	63.1%	21.549	\$23,450
San Augustine County	8,232	19.4%	100.0%	19.4%	15.513	\$23,261
San Jacinto County	28,719	33.5%	100.0%	33.5%	50.451	\$21,808
San Patricio County	66,893	99.4%	100.0%	99.4%	96.464	\$25,281
San Saba County	6,054	72.8%	100.0%	72.8%	5.333	\$24,307
Schleicher County	2,895	0.0%	100.0%	0.0%	2.209	\$25,128
Scurry County	16,866	79.7%	100.0%	79.7%	18.627	\$24,508
Shackelford County	3,253	20.2%	100.0%	20.2%	3.558	\$23,855
Shelby County	25,418	14.0%	99.7%	14.0%	31.949	\$20,969
Sherman County	3,079	42.5%	100.0%	42.5%	3.336	\$26,335
Smith County	230,221	91.8%	100.0%	91.8%	249.845	\$27,141
Somervell County	9,016	100.0%	100.0%	100.0%	48.353	\$26,523
Starr County	64,525	93.3%	100.0%	93.3%	52.752	\$14,122
Stephens County	9,433	99.9%	100.0%	99.9%	10.519	\$24,405
Sterling County	1,311	0.0%	100.0%	0.0%	1.420	\$28,997

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Stonewall County	1,362	79.7%	100.0%	79.7%	1.486	\$28,746
Sutton County	3,758	74.3%	99.8%	74.3%	2.585	\$29,360
Swisher County	7,462	84.7%	100.0%	84.7%	8.383	\$19,258
Tarrant County	2,084,924	99.9%	100.0%	99.9%	2,414.201	\$32,092
Taylor County	137,640	96.8%	100.0%	96.8%	150.336	\$26,469
Terrell County	823	71.4%	95.7%	71.0%	0.349	\$23,852
Terry County	12,287	77.0%	100.0%	77.0%	13.824	\$20,127
Throckmorton County	1,515	63.8%	100.0%	63.8%	1.660	\$28,895
Titus County	33,033	67.2%	100.0%	67.2%	81.351	\$20,633
Tom Green County	118,189	89.1%	100.0%	89.1%	77.655	\$28,444
Travis County	1,248,728	99.8%	100.0%	99.8%	1,261.084	\$41,049
Trinity County	14,740	64.8%	100.0%	64.8%	21.251	\$22,265
Tyler County	21,696	37.9%	100.0%	37.9%	23.468	\$20,439
Upshur County	41,260	90.6%	100.0%	90.6%	70.778	\$24,458
Upton County	3,671	10.7%	100.0%	10.7%	2.957	\$26,183
Uvalde County	26,846	98.3%	100.0%	98.3%	17.298	\$19,092
Val Verde County	49,208	97.5%	99.9%	97.5%	15.648	\$20,881
Van Zandt County	56,019	33.9%	100.0%	33.9%	66.487	\$26,151
Victoria County	92,035	79.1%	100.0%	79.1%	104.331	\$28,576
Walker County	72,480	76.6%	100.0%	76.6%	92.429	\$17,789
Waller County	53,124	65.2%	100.0%	65.2%	103.469	\$24,495
Ward County	11,720	45.9%	100.0%	45.9%	14.026	\$26,570
Washington County	35,108	73.3%	100.0%	73.3%	58.130	\$29,604
Webb County	275,910	95.5%	100.0%	95.5%	82.080	\$17,326
Wharton County	41,619	66.3%	100.0%	66.3%	38.318	\$26,281
Wheeler County	5,191	59.6%	100.0%	59.6%	5.676	\$26,844
Wichita County	132,064	97.9%	100.0%	97.9%	210.368	\$23,921
Wilbarger County	12,819	99.1%	100.0%	99.1%	13.204	\$24,078
Willacy County	21,515	100.0%	100.0%	100.0%	36.432	\$14,207
Williamson County	566,702	94.2%	100.0%	94.2%	506.752	\$35,825
Wilson County	50,221	100.0%	100.0%	100.0%	62.485	\$30,935
Winkler County	7,720	33.4%	100.0%	33.4%	9.178	\$24,217
Wise County	68,301	100.0%	99.9%	99.9%	75.519	\$28,781
Wood County	45,129	69.6%	100.0%	69.6%	69.942	\$27,841
Yoakum County	8,591	74.2%	100.0%	74.2%	10.743	\$26,519
Young County	18,044	100.0%	100.0%	100.0%	19.732	\$25,855
Zapata County	14,190	81.4%	100.0%	81.4%	14.213	\$17,228
Zavala County	11,983	80.4%	100.0%	80.4%	9.236	\$13,350
Utah						

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Beaver County	6,580	95.2%	99.9%	95.2%	2.541	\$22,558
Box Elder County	54,946	91.0%	100.0%	91.0%	9.563	\$23,998
Cache County	127,062	94.9%	100.0%	94.9%	109.084	\$22,666
Carbon County	20,269	92.7%	100.0%	92.7%	13.709	\$23,473
Daggett County	980	41.3%	97.2%	41.3%	1.406	\$27,698
Davis County	351,712	97.8%	100.0%	97.8%	1,177.167	\$29,703
Duchesne County	19,964	66.5%	100.0%	66.5%	6.160	\$23,945
Emery County	10,014	85.8%	99.9%	85.8%	2.244	\$22,505
Garfield County	5,080	98.4%	99.6%	98.1%	0.982	\$24,055
Grand County	9,763	51.5%	94.2%	51.5%	2.659	\$24,593
Iron County	52,775	96.6%	100.0%	96.6%	16.009	\$20,861
Juab County	11,553	85.1%	98.9%	84.9%	3.406	\$22,498
Kane County	7,709	95.1%	99.9%	95.1%	1.932	\$25,746
Millard County	13,006	54.6%	99.5%	54.6%	1.979	\$25,847
Morgan County	12,044	80.8%	97.4%	80.8%	19.770	\$31,936
Piute County	1,445	100.0%	100.0%	100.0%	1.907	\$16,932
Rich County	2,463	85.6%	99.3%	85.6%	2.394	\$21,465
Salt Lake County	1,152,621	98.9%	100.0%	98.9%	1,552.808	\$31,648
San Juan County	15,449	18.2%	93.3%	18.2%	1.976	\$18,128
Sanpete County	30,623	94.2%	100.0%	94.2%	19.258	\$17,980
Sevier County	21,539	96.4%	100.0%	96.4%	11.274	\$22,349
Summit County	41,931	83.8%	99.6%	83.8%	22.402	\$53,950
Tooele County	69,900	84.5%	100.0%	84.5%	10.070	\$25,076
Uintah County	35,438	76.2%	99.8%	76.2%	7.911	\$25,610
Utah County	622,195	92.3%	100.0%	92.3%	310.561	\$24,528
Wasatch County	33,239	85.3%	99.9%	85.3%	28.276	\$32,805
Washington County	171,692	97.4%	99.9%	97.4%	70.761	\$26,601
Wayne County	2,690	89.9%	99.8%	89.9%	1.093	\$22,920
Weber County	256,356	97.6%	100.0%	97.6%	444.998	\$26,492
Vermont
Addison County	36,973	96.2%	100.0%	96.2%	48.247	\$33,120
Bennington County	35,631	96.5%	99.7%	96.3%	52.788	\$31,896
Caledonia County	30,302	82.5%	100.0%	82.5%	46.700	\$28,085
Chittenden County	164,571	97.9%	100.0%	97.9%	306.705	\$37,507
Essex County	6,250	68.3%	95.2%	64.7%	9.418	\$24,163
Franklin County	49,421	88.2%	99.8%	88.0%	77.987	\$30,692
Grand Isle County	7,090	65.5%	100.0%	65.5%	86.663	\$40,464
Lamoille County	25,300	89.2%	100.0%	89.2%	55.144	\$33,247
Orange County	28,999	75.8%	100.0%	75.8%	42.209	\$30,836

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Orleans County	26,907	79.6%	99.9%	79.6%	38.812	\$26,657
Rutland County	58,672	98.6%	100.0%	98.6%	63.100	\$30,109
Washington County	58,140	93.6%	100.0%	93.6%	84.600	\$34,033
Windham County	42,756	88.8%	100.0%	88.8%	54.445	\$31,563
Windsor County	55,285	95.2%	100.0%	95.2%	57.034	\$35,152
Virginia						
Accomack County	32,412	62.3%	99.9%	62.2%	72.107	\$24,355
Albemarle County	108,715	87.7%	99.9%	87.7%	150.847	\$42,085
Alexandria city	160,524	98.3%	100.0%	98.3%	10,682.376	\$59,239
Alleghany County	14,910	93.0%	95.8%	90.1%	33.471	\$26,918
Amelia County	13,013	63.2%	100.0%	63.2%	36.629	\$29,114
Amherst County	31,666	99.8%	99.9%	99.7%	66.815	\$24,343
Appomattox County	15,836	84.2%	100.0%	84.2%	47.485	\$26,890
Arlington County	237,513	98.1%	100.0%	98.1%	9,144.093	\$69,051
Augusta County	75,456	78.1%	99.3%	77.9%	78.031	\$29,366
Bath County	4,292	67.1%	86.2%	55.8%	8.111	\$29,127
Bedford County	84,635	87.2%	100.0%	87.2%	111.377	\$31,796
Bland County	6,293	100.0%	99.3%	99.3%	17.592	\$24,275
Botetourt County	33,276	78.6%	98.9%	78.4%	61.485	\$33,983
Bristol city	16,482	100.0%	100.0%	100.0%	1,266.580	\$22,900
Brunswick County	16,384	24.5%	99.7%	24.5%	28.938	\$20,657
Buchanan County	21,221	100.0%	82.9%	82.9%	42.209	\$18,865
Buckingham County	16,999	44.6%	100.0%	44.6%	29.326	\$19,734
Buena Vista city	6,237	98.3%	100.0%	98.3%	930.396	\$19,744
Campbell County	54,973	96.1%	100.0%	96.1%	109.102	\$27,842
Caroline County	30,770	44.8%	100.0%	44.8%	58.330	\$31,536
Carroll County	29,636	62.5%	98.3%	62.0%	62.432	\$24,868
Charles City County	6,941	100.0%	100.0%	100.0%	37.967	\$37,059
Charlotte County	11,938	49.6%	99.9%	49.5%	25.118	\$20,585
Charlottesville city	48,116	98.6%	100.0%	98.6%	4,699.557	\$35,026
Chesapeake city	242,620	98.0%	100.0%	98.0%	711.912	\$33,844
Chesterfield County	348,546	97.3%	100.0%	97.3%	823.408	\$36,641
Clarke County	14,523	100.0%	100.0%	100.0%	82.434	\$39,946
Colonial Heights city	17,833	98.7%	100.0%	98.7%	2,371.468	\$27,579
Covington city	5,460	99.7%	100.0%	99.7%	998.446	\$24,955
Craig County	5,064	72.4%	62.9%	55.3%	15.367	\$28,686
Culpeper County	51,858	83.8%	100.0%	83.8%	136.744	\$30,812
Cumberland County	9,809	18.5%	100.0%	18.5%	32.976	\$25,177
Danville city	40,693	99.5%	100.0%	99.5%	947.802	\$22,200

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Dickenson County	14,523	97.8%	91.1%	88.9%	43.938	\$22,924
Dinwiddie County	28,529	53.6%	100.0%	53.6%	56.637	\$27,106
Emporia city	5,121	97.0%	100.0%	97.0%	742.839	\$18,694
Essex County	10,919	63.7%	100.0%	63.7%	42.466	\$26,603
Fairfax County	1,150,786	98.4%	100.0%	98.4%	2,943.422	\$54,725
Fairfax city	24,565	97.2%	100.0%	97.2%	3,937.201	\$47,047
Falls Church city	14,765	98.7%	100.0%	98.7%	7,387.011	\$69,775
Fauquier County	70,673	79.1%	100.0%	79.1%	109.156	\$44,724
Floyd County	15,795	68.3%	99.9%	68.3%	41.520	\$26,134
Fluvanna County	26,781	84.0%	100.0%	84.0%	93.638	\$39,900
Franklin County	56,195	89.4%	100.0%	89.3%	81.392	\$28,866
Franklin city	8,013	100.0%	100.0%	100.0%	976.506	\$25,229
Frederick County	88,349	83.2%	100.0%	83.2%	213.663	\$33,961
Fredericksburg city	29,126	92.6%	100.0%	92.6%	2,789.802	\$34,722
Galax city	6,423	95.5%	100.0%	95.5%	779.529	\$21,722
Giles County	16,844	99.7%	99.7%	99.5%	47.344	\$26,459
Gloucester County	37,349	94.1%	100.0%	94.1%	171.478	\$33,295
Goochland County	23,239	65.7%	100.0%	65.7%	82.579	\$47,806
Grayson County	15,631	100.0%	81.2%	81.2%	35.350	\$20,930
Greene County	19,779	81.6%	99.8%	81.5%	126.589	\$32,565
Greensville County	11,627	25.2%	100.0%	25.2%	39.383	\$17,500
Halifax County	34,120	68.2%	100.0%	68.2%	41.720	\$22,716
Hampton city	134,313	97.6%	99.8%	97.4%	2,612.413	\$28,384
Hanover County	107,238	87.7%	100.0%	87.7%	228.879	\$39,604
Harrisonburg city	54,033	91.3%	100.0%	91.3%	3,102.122	\$21,793
Henrico County	329,259	98.2%	100.0%	98.2%	1,408.915	\$37,999
Henry County	50,953	96.2%	100.0%	96.2%	133.268	\$21,501
Highland County	2,210	10.1%	78.9%	4.9%	5.323	\$30,967
Hopewell city	22,596	98.3%	100.0%	98.3%	2,198.432	\$22,038
Isle of Wight County	36,953	85.0%	100.0%	85.0%	117.084	\$35,344
James City County	76,383	94.2%	100.0%	94.2%	536.260	\$43,815
King George County	26,575	93.0%	100.0%	93.0%	147.938	\$37,316
King William County	16,939	20.6%	100.0%	20.6%	61.834	\$32,809
King and Queen County	7,042	18.9%	100.0%	18.9%	22.346	\$27,306
Lancaster County	10,783	71.9%	99.9%	71.9%	80.923	\$37,196
Lee County	23,541	88.9%	98.0%	88.4%	54.053	\$18,750
Lexington city	7,135	96.4%	100.0%	96.4%	2,857.544	\$17,762
Loudoun County	406,833	100.0%	100.0%	100.0%	789.107	\$53,408
Louisa County	36,774	62.0%	100.0%	62.0%	74.096	\$31,284

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Lunenburg County	12,086	29.8%	100.0%	29.8%	27.997	\$18,677
Lynchburg city	82,119	100.0%	100.0%	100.0%	1,671.548	\$22,972
Madison County	13,295	100.0%	100.0%	100.0%	41.458	\$30,351
Manassas Park city	17,274	98.5%	100.0%	98.5%	6,817.551	\$31,420
Manassas city	41,639	96.1%	100.0%	96.1%	4,214.180	\$31,638
Martinsville city	12,902	98.8%	100.0%	98.8%	1,177.590	\$22,669
Mathews County	8,802	93.7%	99.0%	92.7%	102.433	\$39,119
Mecklenburg County	30,650	50.0%	100.0%	50.0%	49.002	\$23,943
Middlesex County	10,769	87.3%	100.0%	87.3%	82.644	\$29,707
Montgomery County	98,982	95.6%	100.0%	95.6%	255.758	\$28,920
Nelson County	14,836	94.8%	99.7%	94.8%	31.509	\$36,002
New Kent County	22,387	76.6%	100.0%	76.6%	106.742	\$36,458
Newport News city	178,626	97.9%	100.0%	97.9%	2,599.567	\$26,993
Norfolk city	244,076	95.6%	100.0%	95.6%	4,509.867	\$28,508
Northampton County	11,735	70.7%	99.9%	70.7%	55.455	\$26,467
Northumberland County	12,147	67.9%	100.0%	67.9%	63.499	\$34,006
Norton city	3,967	96.7%	100.0%	96.7%	530.287	\$20,917
Nottoway County	15,420	53.9%	100.0%	53.9%	49.047	\$23,109
Orange County	36,638	66.9%	100.0%	66.9%	107.511	\$31,362
Page County	23,933	82.4%	100.0%	82.4%	76.991	\$25,021
Patrick County	17,673	40.6%	97.2%	39.1%	36.583	\$23,016
Petersburg city	31,567	98.5%	100.0%	98.5%	1,376.561	\$22,356
Pittsylvania County	60,949	63.5%	100.0%	63.5%	62.903	\$24,443
Poquoson city	12,190	99.1%	100.0%	99.1%	795.868	\$40,277
Portsmouth city	94,632	98.0%	100.0%	98.0%	2,812.022	\$25,179
Powhatan County	29,189	81.6%	100.0%	81.6%	112.170	\$35,641
Prince Edward County	22,944	66.4%	100.0%	66.4%	65.562	\$21,216
Prince George County	38,082	86.9%	100.0%	86.9%	143.621	\$28,873
Prince William County	467,997	98.4%	100.0%	98.4%	1,391.185	\$39,262
Pulaski County	34,066	91.9%	100.0%	91.9%	106.504	\$26,609
Radford city	18,335	100.0%	100.0%	100.0%	1,857.361	\$20,760
Rappahannock County	7,252	96.1%	99.0%	95.1%	27.240	\$37,733
Richmond County	9,036	1.6%	100.0%	1.6%	47.187	\$22,105
Richmond city	228,774	94.5%	100.0%	94.5%	3,825.321	\$31,635
Roanoke County	94,070	98.8%	99.9%	98.7%	375.502	\$34,901
Roanoke city	99,918	98.3%	100.0%	98.3%	2,347.606	\$26,119
Rockbridge County	22,752	80.2%	99.9%	80.2%	38.075	\$31,594
Rockingham County	81,241	82.1%	98.9%	82.0%	95.681	\$30,138
Russell County	26,748	89.6%	99.9%	89.5%	56.452	\$21,754

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Salem city	25,643	96.1%	100.0%	96.1%	1,776.251	\$31,274
Scott County	21,534	83.0%	97.0%	81.8%	40.211	\$21,157
Shenandoah County	43,497	84.5%	100.0%	84.5%	85.493	\$28,064
Smyth County	30,472	94.2%	97.3%	91.9%	67.576	\$22,297
Southampton County	17,586	47.2%	100.0%	47.2%	29.352	\$25,643
Spotsylvania County	134,236	95.4%	100.0%	95.4%	334.339	\$35,794
Stafford County	149,959	98.5%	100.0%	98.5%	557.560	\$40,850
Staunton city	24,920	97.5%	100.0%	97.5%	1,247.547	\$28,836
Suffolk city	91,185	94.6%	100.0%	94.6%	227.867	\$32,894
Surry County	6,474	0.0%	100.0%	0.0%	23.209	\$28,688
Sussex County	11,237	33.2%	100.0%	33.2%	22.922	\$18,363
Tazewell County	40,855	98.7%	99.2%	97.9%	78.742	\$23,366
Virginia Beach city	450,189	97.6%	100.0%	97.6%	1,807.871	\$36,268
Warren County	40,002	92.0%	100.0%	92.0%	187.394	\$31,007
Washington County	54,401	99.2%	98.9%	98.1%	96.976	\$26,085
Waynesboro city	22,624	97.7%	100.0%	97.7%	1,504.356	\$25,421
Westmoreland County	17,830	89.1%	100.0%	89.1%	77.733	\$32,637
Williamsburg city	14,896	70.6%	100.0%	70.6%	1,651.067	\$29,203
Winchester city	28,107	100.0%	100.0%	100.0%	3,044.285	\$29,727
Wise County	38,012	96.3%	99.6%	95.9%	94.278	\$21,828
Wythe County	28,754	88.7%	99.9%	88.7%	62.262	\$26,513
York County	67,845	98.2%	99.9%	98.2%	647.498	\$39,071
Washington						
Adams County	19,757	92.3%	100.0%	92.3%	10.263	\$19,152
Asotin County	22,609	93.1%	98.5%	93.1%	35.537	\$27,896
Benton County	201,873	98.2%	100.0%	98.2%	118.722	\$31,580
Chelan County	77,036	93.6%	99.4%	93.4%	26.377	\$29,204
Clallam County	76,737	78.1%	99.7%	78.1%	44.144	\$29,663
Clark County	481,855	100.0%	99.9%	99.9%	766.060	\$34,163
Columbia County	4,059	96.5%	95.7%	92.7%	4.673	\$31,206
Cowlitz County	108,985	92.4%	99.1%	92.3%	95.590	\$27,264
Douglas County	42,907	97.4%	99.8%	97.3%	23.585	\$28,579
Ferry County	7,649	99.6%	90.1%	89.8%	3.472	\$23,640
Franklin County	94,341	100.0%	99.7%	99.7%	75.948	\$23,373
Garfield County	2,247	12.2%	99.6%	12.2%	3.162	\$25,539
Grant County	97,327	82.4%	100.0%	82.4%	36.323	\$23,633
Grays Harbor County	73,899	90.0%	99.8%	89.9%	38.853	\$25,374
Island County	84,460	98.0%	99.8%	97.7%	405.184	\$35,364
Jefferson County	31,729	79.4%	99.9%	79.4%	17.591	\$34,187

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
King County	2,233,117	97.1%	99.8%	97.0%	1,055.565	\$49,298
Kitsap County	269,803	96.6%	99.7%	96.3%	683.147	\$35,826
Kittitas County	47,364	82.8%	99.5%	82.7%	20.618	\$27,948
Klickitat County	22,107	47.6%	96.1%	46.1%	11.814	\$26,128
Lewis County	79,601	75.4%	99.1%	74.8%	33.128	\$25,813
Lincoln County	10,740	50.3%	99.0%	49.7%	4.648	\$27,730
Mason County	65,503	86.8%	99.8%	86.7%	68.274	\$27,253
Okanogan County	42,132	94.8%	93.2%	89.4%	7.998	\$23,961
Pacific County	22,036	85.8%	99.6%	85.5%	23.627	\$24,474
Pend Oreille County	13,599	100.0%	99.1%	99.1%	9.714	\$26,739
Pierce County	891,290	97.7%	99.9%	97.7%	533.864	\$32,874
San Juan County	17,128	89.6%	100.0%	89.6%	98.485	\$42,307
Skagit County	128,205	93.2%	99.6%	93.1%	74.055	\$31,822
Skamania County	11,923	58.7%	95.8%	58.7%	7.201	\$30,217
Snohomish County	814,883	95.7%	99.9%	95.7%	390.405	\$37,671
Spokane County	514,615	100.0%	100.0%	100.0%	291.766	\$29,982
Stevens County	45,259	100.0%	98.0%	98.0%	18.266	\$25,197
Thurston County	286,416	97.7%	100.0%	97.7%	396.719	\$33,901
Wahkiakum County	4,425	19.9%	95.2%	19.2%	16.801	\$29,452
Walla Walla County	60,918	99.9%	99.7%	99.6%	47.962	\$27,835
Whatcom County	225,681	97.2%	99.6%	97.2%	107.117	\$30,586
Whitman County	49,789	81.0%	99.9%	81.0%	23.060	\$22,585
Yakima County	251,444	82.1%	99.4%	82.1%	58.538	\$22,459
West Virginia						
Barbour County	16,535	86.5%	96.9%	85.2%	48.481	\$22,237
Berkeley County	117,123	95.3%	100.0%	95.3%	364.708	\$28,736
Boone County	21,951	98.1%	83.9%	82.2%	43.767	\$21,394
Braxton County	14,089	69.4%	93.5%	68.8%	27.582	\$21,596
Brooke County	22,203	87.3%	100.0%	87.3%	248.900	\$25,537
Cabell County	93,224	95.0%	100.0%	95.0%	331.737	\$24,506
Calhoun County	7,254	29.3%	91.4%	28.3%	25.977	\$19,911
Clay County	8,632	28.8%	87.5%	19.6%	25.247	\$16,780
Doddridge County	8,406	42.8%	84.6%	42.8%	26.292	\$22,598
Fayette County	43,018	81.5%	98.1%	79.7%	65.026	\$21,466
Gilmer County	8,026	38.7%	83.3%	36.6%	23.710	\$17,313
Grant County	11,626	57.2%	98.3%	56.0%	24.354	\$22,828
Greenbrier County	34,786	72.6%	95.6%	71.0%	34.118	\$23,936
Hampshire County	23,347	26.9%	98.7%	26.3%	36.466	\$23,011
Hancock County	29,094	93.7%	100.0%	93.7%	352.188	\$25,637

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Hardy County	13,775	97.2%	90.2%	87.4%	23.656	\$26,596
Harrison County	67,554	91.9%	98.8%	91.8%	162.386	\$27,869
Jackson County	28,706	91.4%	99.3%	91.2%	61.820	\$24,661
Jefferson County	56,811	98.6%	100.0%	98.6%	271.000	\$34,750
Kanawha County	180,454	96.5%	99.4%	96.1%	200.151	\$28,405
Lewis County	16,024	82.9%	92.1%	79.9%	41.632	\$22,575
Lincoln County	20,599	77.2%	73.6%	60.5%	47.133	\$19,423
Logan County	32,607	94.3%	91.8%	87.2%	71.863	\$21,672
Marion County	56,097	91.9%	99.6%	91.9%	181.699	\$25,909
Marshall County	30,785	78.6%	99.1%	78.5%	100.792	\$24,882
Mason County	26,718	60.7%	99.7%	60.7%	62.027	\$21,812
McDowell County	18,223	85.3%	69.3%	63.2%	34.160	\$14,489
Mercer County	59,131	95.3%	99.8%	95.3%	141.126	\$21,821
Mineral County	26,940	68.2%	100.0%	68.2%	82.177	\$23,546
Mingo County	23,785	84.6%	79.7%	70.8%	56.215	\$19,025
Monongalia County	106,420	52.8%	99.3%	52.8%	295.560	\$30,641
Monroe County	13,280	82.5%	89.6%	81.2%	28.091	\$23,412
Morgan County	17,787	69.4%	100.0%	69.4%	77.648	\$27,642
Nicholas County	24,842	57.1%	94.2%	53.6%	38.406	\$21,941
Ohio County	41,755	95.3%	100.0%	95.3%	394.585	\$30,258
Pendleton County	6,997	28.5%	52.6%	25.0%	10.052	\$24,739
Pleasants County	7,507	60.6%	97.9%	60.6%	57.700	\$27,522
Pocahontas County	8,414	41.0%	37.8%	29.3%	8.948	\$24,109
Preston County	33,839	56.7%	99.0%	56.1%	52.156	\$23,337
Putnam County	56,682	86.6%	99.7%	86.6%	163.978	\$31,277
Raleigh County	74,254	98.2%	96.7%	95.2%	122.663	\$24,170
Randolph County	28,823	85.3%	91.8%	85.0%	27.723	\$24,162
Ritchie County	9,721	39.9%	88.8%	39.9%	21.507	\$24,442
Roane County	13,932	43.2%	96.3%	42.2%	28.811	\$20,574
Summers County	12,760	56.0%	100.0%	55.9%	35.399	\$20,784
Taylor County	16,862	88.5%	99.7%	88.4%	97.597	\$24,258
Tucker County	6,955	60.6%	93.4%	59.6%	16.602	\$23,670
Tyler County	8,746	31.6%	93.0%	31.6%	34.125	\$24,422
Upshur County	24,415	87.5%	96.0%	87.0%	68.845	\$21,701
Wayne County	39,944	84.6%	93.4%	80.3%	78.944	\$21,240
Webster County	8,285	64.1%	84.3%	61.1%	14.969	\$20,507
Wetzel County	15,270	52.6%	79.3%	52.6%	42.646	\$22,789
Wirt County	5,829	48.9%	91.7%	48.9%	25.070	\$21,314
Wood County	84,203	93.5%	100.0%	93.5%	229.900	\$27,201

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Wyoming County	20,786	93.1%	84.1%	79.6%	41.618	\$20,831
Wisconsin						
Adams County	20,339	65.8%	100.0%	65.8%	31.502	\$25,591
Ashland County	15,600	68.6%	99.7%	68.5%	14.928	\$23,505
Barron County	45,164	72.2%	99.9%	72.2%	52.351	\$28,326
Bayfield County	15,042	87.1%	99.0%	86.5%	10.178	\$29,886
Brown County	263,364	99.8%	100.0%	99.8%	497.187	\$31,213
Buffalo County	13,125	95.6%	97.1%	92.9%	19.542	\$29,613
Burnett County	15,392	79.7%	100.0%	79.7%	18.729	\$28,424
Calumet County	50,158	100.0%	100.0%	100.0%	157.613	\$34,015
Chippewa County	64,129	85.0%	100.0%	85.0%	63.597	\$28,277
Clark County	34,709	53.1%	100.0%	53.1%	28.690	\$24,114
Columbia County	57,358	90.5%	100.0%	90.5%	74.926	\$33,012
Crawford County	16,291	78.5%	93.4%	75.3%	28.548	\$26,038
Dane County	542,354	97.8%	100.0%	97.8%	453.004	\$38,757
Dodge County	87,847	89.1%	100.0%	89.1%	100.325	\$28,543
Door County	27,608	90.4%	99.8%	90.3%	57.281	\$36,155
Douglas County	43,208	79.9%	100.0%	79.9%	33.132	\$28,888
Dunn County	45,124	75.3%	100.0%	75.3%	53.080	\$27,107
Eau Claire County	104,529	91.9%	100.0%	91.9%	163.843	\$29,524
Florence County	4,321	87.5%	99.6%	87.1%	8.851	\$30,674
Fond du Lac County	103,056	99.1%	100.0%	99.1%	143.222	\$30,454
Forest County	8,990	46.4%	99.4%	46.4%	8.865	\$24,808
Grant County	51,554	85.1%	99.1%	84.5%	44.953	\$24,974
Green County	36,929	87.6%	100.0%	87.6%	63.239	\$31,959
Green Lake County	18,916	69.9%	100.0%	69.9%	54.133	\$27,915
Iowa County	23,771	83.6%	98.3%	82.7%	31.172	\$33,674
Iron County	5,676	63.4%	99.8%	63.4%	7.486	\$28,550
Jackson County	20,478	60.2%	99.4%	60.2%	20.733	\$26,037
Jefferson County	85,122	88.9%	100.0%	88.9%	152.967	\$30,329
Juneau County	26,616	72.1%	99.8%	72.1%	34.705	\$26,137
Kenosha County	169,284	99.9%	100.0%	99.9%	622.389	\$30,740
Kewaunee County	20,383	96.9%	100.0%	96.9%	59.509	\$30,098
La Crosse County	118,230	96.1%	99.8%	96.0%	261.752	\$31,001
Lafayette County	16,665	69.5%	99.7%	69.4%	26.303	\$28,198
Langlade County	19,267	93.9%	100.0%	93.9%	22.130	\$26,212
Lincoln County	27,689	79.6%	100.0%	79.6%	31.502	\$29,642
Manitowoc County	79,074	100.0%	100.0%	100.0%	134.233	\$28,803
Marathon County	135,428	97.4%	100.0%	97.4%	87.657	\$31,879

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Marinette County	40,434	69.0%	99.9%	69.0%	28.895	\$26,959
Marquette County	15,434	76.9%	100.0%	76.9%	33.876	\$26,068
Menominee County	4,657	81.6%	100.0%	81.6%	13.023	\$20,538
Milwaukee County	948,201	100.0%	100.0%	100.0%	3,927.888	\$28,121
Monroe County	46,047	78.3%	99.9%	78.3%	51.119	\$27,729
Oconto County	37,827	86.7%	100.0%	86.7%	37.903	\$29,392
Oneida County	35,468	72.3%	100.0%	72.3%	31.868	\$32,784
Outagamie County	187,344	98.6%	100.0%	98.6%	293.862	\$32,098
Ozaukee County	89,143	100.0%	100.0%	100.0%	382.462	\$47,980
Pepin County	7,287	97.4%	100.0%	97.4%	31.412	\$29,227
Pierce County	42,548	95.5%	100.0%	95.5%	74.158	\$32,525
Polk County	43,596	70.7%	100.0%	70.7%	47.700	\$29,489
Portage County	70,936	89.8%	100.0%	89.8%	88.595	\$29,742
Price County	13,397	38.6%	99.2%	38.5%	10.680	\$27,569
Racine County	196,579	100.0%	100.0%	100.0%	591.213	\$30,386
Richland County	17,377	52.1%	97.2%	51.9%	29.646	\$26,379
Rock County	163,121	96.1%	100.0%	96.1%	227.143	\$28,103
Rusk County	14,147	50.8%	99.9%	50.8%	15.485	\$24,731
Sauk County	64,245	85.6%	99.4%	85.4%	77.320	\$29,608
Sawyer County	16,489	76.8%	98.9%	76.5%	13.115	\$30,094
Shawano County	40,796	98.4%	100.0%	98.4%	45.681	\$28,051
Sheboygan County	115,455	100.0%	100.0%	100.0%	225.822	\$30,151
St. Croix County	89,689	67.9%	100.0%	67.9%	124.166	\$37,419
Taylor County	20,411	48.7%	100.0%	48.7%	20.937	\$26,881
Trempealeau County	29,442	92.9%	99.4%	92.5%	40.168	\$27,733
Vernon County	30,785	83.2%	96.3%	80.2%	38.891	\$26,726
Vilas County	21,936	64.0%	100.0%	64.0%	25.608	\$31,206
Walworth County	103,717	91.0%	100.0%	91.0%	186.835	\$30,593
Washburn County	15,875	58.3%	100.0%	58.3%	19.916	\$29,336
Washington County	135,689	100.0%	100.0%	100.0%	315.041	\$37,631
Waukesha County	403,058	99.9%	100.0%	99.9%	733.401	\$44,301
Waupaca County	51,128	82.9%	100.0%	82.9%	68.379	\$30,627
Waushara County	24,263	59.0%	100.0%	59.0%	38.749	\$27,347
Winnebago County	171,014	96.2%	100.0%	96.2%	393.600	\$33,000
Wood County	73,055	86.0%	100.0%	86.0%	92.111	\$30,006
Wyoming						
Albany County	38,601	94.5%	99.0%	94.4%	9.032	\$26,665
Big Horn County	11,881	67.2%	98.7%	66.4%	3.787	\$23,978
Campbell County	46,140	92.0%	100.0%	92.0%	9.607	\$33,286

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Carbon County	14,971	87.1%	97.5%	86.4%	1.896	\$29,890
Converse County	13,640	91.2%	99.8%	91.2%	3.206	\$32,069
Crook County	7,450	67.5%	99.4%	67.5%	2.610	\$32,256
Fremont County	39,531	63.8%	94.7%	58.9%	4.304	\$27,598
Goshen County	13,376	75.9%	99.9%	75.9%	6.011	\$27,739
Hot Springs County	4,555	87.7%	99.1%	87.7%	2.273	\$32,359
Johnson County	8,460	86.0%	100.0%	86.0%	2.037	\$34,885
Laramie County	98,975	94.3%	100.0%	94.3%	36.850	\$32,920
Lincoln County	19,433	81.8%	96.6%	79.8%	4.768	\$30,106
Natrona County	79,115	91.8%	99.8%	91.8%	14.815	\$33,082
Niobrara County	2,388	19.2%	99.0%	19.2%	0.909	\$22,688
Park County	29,324	71.1%	98.2%	71.1%	4.224	\$35,059
Platte County	8,566	50.7%	99.9%	50.7%	4.110	\$31,553
Sheridan County	30,233	90.5%	100.0%	90.5%	11.978	\$34,059
Sublette County	9,813	80.9%	99.7%	80.9%	2.008	\$33,231
Sweetwater County	43,051	93.1%	99.7%	93.0%	4.129	\$32,624
Teton County	23,081	95.1%	98.6%	94.2%	5.777	\$53,703
Uinta County	20,299	99.5%	99.8%	99.4%	9.753	\$27,009
Washakie County	7,885	89.4%	98.8%	88.7%	3.522	\$27,556
Weston County	6,967	73.0%	99.8%	73.0%	2.905	\$29,152
American Samoa						
Eastern District	21,083	100.0%	0.0%	0.0%	820.619	.
Manu'a District	1,046	100.0%	0.0%	0.0%	46.933	.
Swains Island	16	0.0%	0.0%	0.0%	17.035	.
Western District	28,681	100.0%	0.0%	0.0%	1,042.704	.
Guam	167,772	65.5%	100.0%	65.5%	799.661	
Commonwealth of the Northern Mariana Islands						
Rota Municipality	2,438	0.0%	96.4%	0.0%	74.201	.
Saipan Municipality	46,530	99.0%	100.0%	99.0%	1,013.948	.
Tinian Municipality	3,026	0.0%	98.2%	0.0%	72.408	.
Puerto Rico						
Adjuntas Municipio	17,302	51.8%	100.0%	51.8%	259.440	\$7,126
Aguada Municipio	36,621	98.9%	100.0%	98.9%	1,187.020	\$9,287
Aguadilla Municipio	50,598	100.0%	100.0%	100.0%	1,385.161	\$11,339
Aguas Buenas Municipio	24,848	52.5%	100.0%	52.5%	825.930	\$10,188
Aibonito Municipio	22,143	57.1%	100.0%	57.1%	707.201	\$10,630
Arecibo Municipio	82,114	93.7%	99.8%	93.5%	651.974	\$10,203
Arroyo Municipio	17,169	97.7%	100.0%	97.7%	1,144.022	\$7,979
Añasco Municipio	26,031	90.3%	100.0%	90.3%	662.619	\$10,259

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Barceloneta Municipio	23,504	100.0%	99.7%	99.7%	1,257.373	\$9,170
Barranquitas Municipio	27,476	73.0%	100.0%	73.0%	802.156	\$8,221
Bayamón Municipio	170,480	92.6%	100.0%	92.6%	3,846.225	\$14,377
Cabo Rojo Municipio	47,117	96.9%	99.9%	96.7%	669.526	\$9,245
Caguas Municipio	124,434	92.9%	100.0%	92.9%	2,123.543	\$14,654
Camuy Municipio	30,503	88.5%	100.0%	88.5%	658.033	\$10,252
Canóvanas Municipio	44,296	84.4%	100.0%	84.4%	1,347.813	\$11,920
Carolina Municipio	147,661	92.3%	100.0%	92.3%	3,258.143	\$16,536
Cataño Municipio	23,244	72.8%	100.0%	72.8%	4,797.964	\$12,195
Cayey Municipio	42,349	81.4%	100.0%	81.4%	815.434	\$12,088
Ceiba Municipio	11,018	96.5%	100.0%	96.5%	379.469	\$13,044
Ciales Municipio	15,918	100.0%	99.8%	99.8%	239.263	\$8,398
Cidra Municipio	38,288	69.3%	100.0%	69.3%	1,062.928	\$11,079
Coamo Municipio	37,845	93.0%	100.0%	93.0%	485.116	\$10,761
Comerío Municipio	18,598	65.7%	100.0%	65.7%	654.846	\$6,903
Corozal Municipio	32,320	68.3%	100.0%	68.3%	759.170	\$7,619
Culebra Municipio	1,710	0.0%	99.3%	0.0%	147.111	\$11,830
Dorado Municipio	35,779	98.2%	100.0%	98.1%	1,549.637	\$16,570
Fajardo Municipio	29,699	98.2%	100.0%	98.2%	994.475	\$11,663
Florida Municipio	11,329	93.6%	100.0%	93.6%	744.881	\$8,871
Guayama Municipio	39,521	93.4%	100.0%	93.4%	608.093	\$9,806
Guayanilla Municipio	17,719	84.2%	99.3%	83.9%	419.184	\$8,717
Guaynabo Municipio	83,787	85.7%	100.0%	85.7%	3,038.117	\$23,895
Gurabo Municipio	46,068	82.5%	100.0%	82.5%	1,651.926	\$17,393
Guánica Municipio	15,551	99.1%	100.0%	99.1%	419.727	\$7,430
Hatillo Municipio	38,826	95.5%	100.0%	95.5%	929.282	\$10,659
Hormigueros Municipio	15,462	99.9%	100.0%	99.9%	1,363.012	\$11,874
Humacao Municipio	50,532	97.2%	99.9%	97.1%	1,129.089	\$12,093
Isabela Municipio	40,268	93.3%	100.0%	93.3%	728.125	\$9,228
Jayuya Municipio	13,947	93.1%	99.5%	93.1%	313.183	\$7,519
Juana Díaz Municipio	44,510	98.3%	100.0%	98.3%	738.422	\$10,611
Juncos Municipio	37,723	94.7%	100.0%	94.7%	1,424.116	\$9,316
Lajas Municipio	21,991	93.0%	100.0%	93.0%	366.806	\$7,233
Lares Municipio	24,484	83.7%	100.0%	83.7%	398.436	\$8,735
Las Marías Municipio	7,961	52.1%	100.0%	52.1%	171.721	\$7,098
Las Piedras Municipio	36,458	86.0%	100.0%	86.0%	1,076.098	\$11,239
Loíza Municipio	24,686	98.4%	99.9%	98.4%	1,274.694	\$8,809
Luquillo Municipio	17,594	98.2%	100.0%	98.2%	681.634	\$11,007
Manatí Municipio	37,393	100.0%	100.0%	100.0%	828.596	\$10,946

County or County Equivalent	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. with Fixed & Mobile	Pop. Density	Per Capita Income (\$2018)
Maricao Municipio	5,426	66.0%	100.0%	66.0%	148.160	\$5,974
Maunabo Municipio	10,370	85.1%	99.0%	84.1%	492.255	\$9,471
Mayagüez Municipio	71,986	98.8%	100.0%	98.8%	927.114	\$10,678
Moca Municipio	34,909	97.2%	100.0%	97.2%	693.413	\$8,806
Morovis Municipio	30,068	84.8%	100.0%	84.8%	773.530	\$9,715
Naguabo Municipio	25,376	97.6%	100.0%	97.6%	491.206	\$9,263
Naranjito Municipio	27,209	63.7%	100.0%	63.7%	992.980	\$9,150
Orocovis Municipio	20,221	59.1%	98.5%	58.9%	317.843	\$7,889
Patillas Municipio	16,310	94.6%	99.8%	94.4%	349.255	\$9,223
Peñuelas Municipio	19,402	89.2%	100.0%	89.2%	434.852	\$8,609
Ponce Municipio	133,191	97.5%	100.0%	97.5%	1,160.584	\$11,368
Quebradillas Municipio	22,828	95.5%	100.0%	95.5%	1,006.408	\$9,819
Rincón Municipio	13,627	97.7%	98.8%	96.5%	953.751	\$11,650
Río Grande Municipio	47,889	95.9%	100.0%	95.9%	789.953	\$10,931
Sabana Grande Municipio	21,741	93.5%	100.0%	93.5%	606.736	\$9,560
Salinas Municipio	27,083	81.5%	100.0%	81.5%	390.441	\$9,034
San Germán Municipio	30,229	82.6%	100.0%	82.6%	554.684	\$9,874
San Juan Municipio	320,967	98.9%	100.0%	98.8%	6,708.203	\$18,569
San Lorenzo Municipio	35,900	54.8%	100.0%	54.8%	675.987	\$10,974
San Sebastián Municipio	35,652	74.3%	100.0%	74.3%	506.255	\$8,739
Santa Isabel Municipio	21,037	92.7%	100.0%	92.7%	618.312	\$10,895
Toa Alta Municipio	71,094	64.9%	100.0%	64.9%	2,631.511	\$14,241
Toa Baja Municipio	74,623	86.8%	100.0%	86.8%	3,210.862	\$12,763
Trujillo Alto Municipio	63,746	82.3%	100.0%	82.3%	3,070.002	\$15,886
Utua Municipio	27,545	85.1%	99.4%	85.1%	242.624	\$8,639
Vega Alta Municipio	35,806	95.2%	100.0%	95.2%	1,291.324	\$11,678
Vega Baja Municipio	50,185	95.4%	100.0%	95.4%	1,094.401	\$10,601
Vieques Municipio	8,364	17.7%	99.5%	17.2%	164.750	\$11,156
Villalba Municipio	21,476	90.1%	100.0%	90.1%	602.638	\$10,677
Yabucoa Municipio	32,158	83.6%	100.0%	83.6%	582.418	\$9,148
Yauco Municipio	33,860	88.0%	99.5%	87.5%	496.542	\$8,339
U.S. Virgin Islands						
St. Croix Island	50,873	100.0%	99.6%	99.6%	610.574	.
St. John Island	4,192	100.0%	90.9%	90.9%	212.887	.
St. Thomas Island	51,912	100.0%	97.1%	97.1%	1,657.956	.

APPENDIX 5

**Deployment of Fixed Terrestrial 25/3 Mbps and Mobile LTE With a Minimum Advertised Speed of
5/1 Mbps Services By County and County Equivalent –
Segmented by Urban and Rural Areas
(As of December 31, 2018)¹**

County or County Equivalent	Urban Areas				Rural Areas			
	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile
Alabama								
Autauga County	31,811	100.0%	100.0%	100.0%	23,790	55.1%	100.0%	55.1%
Baldwin County	120,304	92.9%	99.9%	92.8%	97,717	82.1%	99.9%	82.1%
Barbour County	8,444	100.0%	100.0%	100.0%	16,437	53.3%	99.9%	53.3%
Bibb County	7,002	23.4%	100.0%	23.4%	15,398	34.0%	100.0%	34.0%
Blount County	5,757	71.1%	100.0%	71.1%	52,083	64.1%	100.0%	64.1%
Bullock County	4,556	89.6%	100.0%	89.6%	5,582	92.6%	99.9%	92.4%
Butler County	5,616	100.0%	100.0%	100.0%	14,064	52.1%	99.7%	52.1%
Calhoun County	76,165	97.4%	100.0%	97.4%	38,112	82.0%	99.9%	82.0%
Chambers County	17,121	99.9%	100.0%	99.9%	16,494	67.0%	100.0%	67.0%
Cherokee County	3,643	100.0%	100.0%	100.0%	22,388	98.4%	100.0%	98.4%
Chilton County	5,808	78.0%	100.0%	78.0%	38,345	64.8%	100.0%	64.8%
Choctaw County					12,841	21.8%	99.7%	21.8%
Clarke County	5,856	99.2%	100.0%	99.2%	18,064	50.4%	99.5%	50.4%
Clay County					13,275	43.5%	100.0%	43.5%
Cleburne County					14,986	8.9%	99.5%	8.9%
Coffee County	26,835	100.0%	100.0%	100.0%	25,074	81.4%	100.0%	81.4%
Colbert County	30,671	98.4%	100.0%	98.4%	24,091	64.8%	100.0%	64.8%
Conecuh County	1,790	97.4%	100.0%	97.4%	10,487	30.6%	100.0%	30.6%
Coosa County					10,715	78.6%	100.0%	78.6%
Covington County	11,189	99.2%	100.0%	99.2%	25,797	78.4%	100.0%	78.4%
Crenshaw County					13,824	74.6%	100.0%	74.6%
Cullman County	22,202	99.8%	100.0%	99.8%	61,239	69.2%	100.0%	69.2%
Dale County	23,654	100.0%	100.0%	100.0%	25,302	89.6%	100.0%	89.6%
Dallas County	20,761	99.8%	100.0%	99.8%	17,549	47.7%	99.4%	47.7%
DeKalb County	6,965	100.0%	100.0%	100.0%	64,420	98.1%	100.0%	98.1%
Elmore County	37,103	99.8%	100.0%	99.8%	44,784	86.7%	100.0%	86.7%
Escambia County	13,640	98.1%	100.0%	98.1%	23,108	61.3%	99.7%	61.3%

¹ Blank entries mean that there is no population for the pertinent segment (urban or rural) in that particular county.

County or County Equivalent	Urban Areas				Rural Areas			
	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile
Etowah County	63,842	99.2%	100.0%	99.2%	38,659	87.1%	100.0%	87.1%
Fayette County	2,914	25.9%	100.0%	25.9%	13,519	18.4%	100.0%	18.4%
Franklin County	9,303	99.9%	100.0%	99.9%	22,060	49.4%	99.9%	49.4%
Geneva County	2,745	100.0%	100.0%	100.0%	23,569	50.9%	100.0%	50.9%
Greene County					8,233	1.0%	100.0%	1.0%
Hale County	1,487	100.0%	100.0%	100.0%	13,239	48.7%	100.0%	48.7%
Henry County	2,098	99.6%	100.0%	99.6%	15,111	52.3%	99.9%	52.3%
Houston County	68,768	99.4%	100.0%	99.4%	35,954	64.3%	100.0%	64.3%
Jackson County	11,446	99.9%	100.0%	99.9%	40,290	93.9%	99.2%	93.1%
Jefferson County	593,972	99.9%	100.0%	99.9%	65,328	91.4%	99.6%	91.4%
Lamar County					13,844	38.6%	100.0%	38.6%
Lauderdale County	46,501	97.7%	100.0%	97.7%	45,886	64.3%	100.0%	64.3%
Lawrence County	2,504	100.0%	100.0%	100.0%	30,453	51.3%	99.8%	51.3%
Lee County	114,212	99.8%	100.0%	99.8%	49,728	88.3%	100.0%	88.3%
Limestone County	39,160	99.6%	100.0%	99.6%	56,969	88.5%	100.0%	88.5%
Lowndes County					9,974	13.0%	99.8%	13.0%
Macon County	7,133	99.1%	100.0%	99.1%	11,306	44.5%	100.0%	44.5%
Madison County	298,995	97.0%	100.0%	97.0%	67,501	95.9%	100.0%	95.8%
Marengo County	5,511	0.3%	100.0%	0.3%	13,555	18.5%	100.0%	18.5%
Marion County	3,187	92.7%	100.0%	92.7%	26,576	69.7%	100.0%	69.7%
Marshall County	44,676	99.6%	100.0%	99.6%	51,432	91.6%	100.0%	91.6%
Mobile County	330,367	97.4%	100.0%	97.4%	83,390	86.8%	100.0%	86.8%
Monroe County	4,153	97.9%	100.0%	97.9%	16,914	51.7%	98.5%	51.7%
Montgomery County	201,474	99.6%	100.0%	99.6%	24,289	78.0%	100.0%	78.0%
Morgan County	72,849	99.7%	100.0%	99.7%	46,239	78.4%	100.0%	78.4%
Perry County					9,140	0.1%	100.0%	0.1%
Pickens County					19,938	48.6%	100.0%	48.6%
Pike County	15,501	99.7%	100.0%	99.7%	17,837	85.8%	99.4%	85.2%
Randolph County	4,120	100.0%	100.0%	100.0%	18,605	46.1%	100.0%	46.1%
Russell County	35,204	100.0%	100.0%	100.0%	22,576	72.7%	100.0%	72.7%
Shelby County	160,985	99.8%	100.0%	99.8%	54,721	82.4%	100.0%	82.4%
St. Clair County	23,674	94.4%	100.0%	94.4%	65,016	86.4%	100.0%	86.4%
Sumter County					12,691	46.4%	100.0%	46.4%
Talladega County	34,632	99.8%	100.0%	99.8%	45,196	67.4%	100.0%	67.4%
Tallapoosa County	10,450	100.0%	100.0%	100.0%	30,047	88.8%	100.0%	88.8%
Tuscaloosa County	152,630	95.8%	100.0%	95.8%	56,280	81.4%	99.9%	81.4%
Walker County	16,331	99.8%	100.0%	99.8%	47,380	67.3%	100.0%	67.3%

County or County Equivalent	Urban Areas				Rural Areas			
	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile
Washington County					16,378	35.1%	99.9%	35.1%
Wilcox County					10,627	39.3%	99.9%	39.3%
Winston County	3,467	59.5%	100.0%	59.5%	20,193	49.6%	99.9%	49.6%
Alaska								
Aleutians East Borough					3,515	0.0%	0.0%	0.0%
Aleutians West Census Area					5,723	0.0%	51.2%	0.0%
Anchorage Municipality	278,657	99.9%	100.0%	99.9%	12,881	94.6%	96.4%	90.9%
Bethel Census Area	4,584	0.0%	0.0%	0.0%	13,632	0.0%	0.0%	0.0%
Bristol Bay Borough					877	0.0%	0.0%	0.0%
Denali Borough					2,059	40.3%	97.4%	40.3%
Dillingham Census Area					5,000	0.0%	0.0%	0.0%
Fairbanks North Star Borough	67,891	98.5%	100.0%	98.5%	31,080	67.5%	99.3%	67.5%
Haines Borough					2,474	92.3%	78.5%	74.9%
Hoonah-Angoon Census Area					2,151	25.0%	78.1%	20.3%
Juneau City and Borough	25,169	100.0%	100.0%	100.0%	6,944	96.7%	98.1%	95.1%
Kenai Peninsula Borough	11,730	100.0%	100.0%	100.0%	46,803	85.3%	97.6%	84.0%
Ketchikan Gateway Borough	10,618	100.0%	99.9%	99.9%	3,300	95.6%	98.5%	94.6%
Kodiak Island Borough	8,998	100.0%	100.0%	100.0%	4,347	56.0%	78.7%	56.0%
Kusilvak Census Area					7,996	0.0%	7.5%	0.0%
Lake and Peninsula Borough					1,587	0.0%	0.0%	0.0%
Matanuska-Susitna Borough	49,166	99.5%	100.0%	99.5%	58,444	82.8%	99.5%	82.7%
Nome Census Area	3,269	97.8%	100.0%	97.8%	6,739	2.7%	35.0%	2.7%
North Slope Borough	3,869	0.0%	100.0%	0.0%	6,003	0.0%	55.9%	0.0%
Northwest Arctic Borough	3,239	0.0%	0.0%	0.0%	4,432	0.0%	22.4%	0.0%
Petersburg Borough					3,221	79.7%	77.3%	60.5%
Prince of Wales-Hyder Census Area					6,411	0.0%	60.8%	0.0%
Sitka City and Borough	6,809	100.0%	100.0%	100.0%	1,838	89.4%	96.6%	89.4%

County or County Equivalent	Urban Areas				Rural Areas			
	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile
Skagway Municipality					1,148	97.8%	80.1%	79.9%
Southeast Fairbanks Census Area					6,918	63.7%	83.8%	57.8%
Valdez-Cordova Census Area					9,164	85.1%	94.8%	83.3%
Wrangell City and Borough					2,503	89.6%	74.2%	70.5%
Yakutat City and Borough					604	0.0%	0.0%	0.0%
Yukon-Koyukuk Census Area					5,327	0.0%	12.8%	0.0%
Arizona								
Apache County	17,215	0.3%	100.0%	0.3%	54,603	0.2%	79.8%	0.2%
Cochise County	79,380	92.1%	100.0%	92.1%	47,390	32.9%	99.7%	32.9%
Coconino County	92,936	88.8%	100.0%	88.8%	49,918	34.6%	98.1%	34.6%
Gila County	31,551	85.3%	100.0%	85.3%	22,338	58.9%	97.5%	57.7%
Graham County	20,081	95.6%	100.0%	95.6%	17,991	56.4%	98.9%	56.4%
Greenlee County	4,555	96.6%	100.0%	96.6%	4,928	10.7%	98.6%	10.5%
La Paz County	8,929	84.6%	100.0%	84.6%	12,169	33.1%	99.9%	33.1%
Maricopa County	4,201,601	94.9%	100.0%	94.9%	209,160	58.3%	99.9%	58.3%
Mohave County	156,125	95.6%	100.0%	95.6%	53,424	32.9%	99.2%	32.5%
Navajo County	48,401	75.5%	100.0%	75.5%	62,044	20.9%	81.9%	20.9%
Pima County	944,092	99.6%	100.0%	99.6%	94,972	84.0%	99.7%	83.9%
Pinal County	314,817	83.6%	100.0%	83.6%	132,274	31.8%	100.0%	31.8%
Santa Cruz County	33,358	100.0%	100.0%	100.0%	13,153	84.2%	99.8%	84.2%
Yavapai County	147,155	97.7%	100.0%	97.7%	84,837	70.7%	99.6%	70.7%
Yuma County	184,298	98.1%	100.0%	98.1%	27,829	34.3%	99.8%	34.3%
Arkansas								
Arkansas County	11,228	15.5%	100.0%	15.5%	6,541	25.2%	100.0%	25.2%
Ashley County	9,470	39.7%	100.0%	39.7%	10,576	17.5%	100.0%	17.5%
Baxter County	13,933	100.0%	100.0%	100.0%	27,686	68.7%	99.8%	68.6%
Benton County	193,721	100.0%	100.0%	100.0%	78,876	100.0%	100.0%	100.0%
Boone County	14,075	99.3%	100.0%	99.3%	23,405	78.0%	100.0%	78.0%
Bradley County	5,484	98.2%	100.0%	98.2%	5,412	25.6%	100.0%	25.6%
Calhoun County					5,277	7.0%	100.0%	7.0%
Carroll County	7,489	100.0%	100.0%	100.0%	20,733	96.4%	100.0%	96.4%
Chicot County	4,289	96.5%	100.0%	96.5%	6,149	25.7%	100.0%	25.7%
Clark County	9,567	100.0%	100.0%	100.0%	12,494	73.1%	100.0%	73.1%
Clay County	5,732	74.8%	100.0%	74.8%	9,115	49.7%	100.0%	49.7%

County or County Equivalent	Urban Areas				Rural Areas			
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Cleburne County	6,012	100.0%	100.0%	100.0%	18,953	38.3%	100.0%	38.3%
Cleveland County					8,018	83.9%	100.0%	83.9%
Columbia County	9,488	99.4%	100.0%	99.4%	14,049	52.0%	100.0%	52.0%
Conway County	6,168	100.0%	100.0%	100.0%	14,723	23.8%	100.0%	23.8%
Craighead County	70,817	99.4%	100.0%	99.4%	37,729	66.1%	100.0%	66.1%
Crawford County	30,000	98.4%	100.0%	98.4%	33,405	73.6%	100.0%	73.6%
Crittenden County	37,552	97.1%	100.0%	97.1%	10,790	17.8%	100.0%	17.8%
Cross County	7,454	81.7%	100.0%	81.7%	9,222	37.0%	100.0%	37.0%
Dallas County	3,237	38.3%	100.0%	38.3%	3,945	41.9%	100.0%	41.9%
Desha County	7,455	97.2%	100.0%	97.2%	4,057	19.2%	100.0%	19.2%
Drew County	9,298	96.0%	100.0%	96.0%	9,030	38.9%	100.0%	38.9%
Faulkner County	74,349	90.6%	100.0%	90.6%	50,455	70.7%	100.0%	70.7%
Franklin County	2,605	41.5%	100.0%	41.5%	15,205	15.0%	100.0%	15.0%
Fulton County	866	83.9%	100.0%	83.9%	11,402	31.2%	100.0%	31.2%
Garland County	62,017	99.7%	100.0%	99.7%	37,136	93.0%	100.0%	93.0%
Grant County	4,476	78.0%	100.0%	78.0%	13,712	50.0%	100.0%	50.0%
Greene County	25,512	100.0%	100.0%	100.0%	19,813	37.0%	100.0%	37.0%
Hempstead County	9,318	80.8%	100.0%	80.8%	12,423	53.0%	100.0%	53.0%
Hot Spring County	11,312	87.5%	100.0%	87.5%	22,389	45.9%	100.0%	45.9%
Howard County	4,096	0.0%	100.0%	0.0%	9,245	24.7%	100.0%	24.7%
Independence County	11,681	100.0%	100.0%	100.0%	25,997	53.7%	100.0%	53.7%
Izard County					13,593	51.5%	100.0%	51.5%
Jackson County	5,757	99.8%	100.0%	99.8%	11,054	66.5%	100.0%	66.5%
Jefferson County	47,531	73.6%	100.0%	73.6%	20,583	27.0%	100.0%	27.0%
Johnson County	6,957	99.7%	100.0%	99.7%	19,783	49.0%	99.3%	49.0%
Lafayette County					6,682	12.3%	100.0%	12.3%
Lawrence County	6,001	100.0%	100.0%	100.0%	10,433	20.6%	100.0%	20.6%
Lee County	3,281	65.0%	100.0%	65.0%	5,704	12.8%	100.0%	12.8%
Lincoln County					13,383	29.5%	100.0%	29.5%
Little River County	3,663	84.6%	100.0%	84.6%	8,663	26.7%	100.0%	26.7%
Logan County	6,391	45.2%	100.0%	45.2%	15,346	35.2%	100.0%	35.2%
Lonoke County	39,361	81.5%	100.0%	81.5%	34,294	72.9%	100.0%	72.9%
Madison County					16,481	38.4%	100.0%	38.4%
Marion County					16,722	58.0%	100.0%	58.0%
Miller County	25,804	99.0%	100.0%	99.0%	17,788	83.4%	100.0%	83.4%
Mississippi County	25,442	86.9%	100.0%	86.9%	15,797	51.0%	100.0%	51.0%
Monroe County	2,217	3.8%	100.0%	3.8%	4,683	16.5%	100.0%	16.5%

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Montgomery County					8,924	46.7%	99.9%	46.7%
Nevada County	2,344	88.3%	100.0%	88.3%	5,982	31.1%	100.0%	31.1%
Newton County					7,805	13.7%	95.7%	13.7%
Ouachita County	9,833	81.9%	100.0%	81.9%	13,773	46.1%	100.0%	46.1%
Perry County					10,352	68.8%	99.5%	68.8%
Phillips County	9,293	100.0%	100.0%	100.0%	8,736	70.6%	100.0%	70.6%
Pike County					10,673	44.6%	100.0%	44.6%
Poinsett County	6,820	97.6%	100.0%	97.6%	17,154	50.4%	100.0%	50.4%
Polk County	5,255	99.6%	100.0%	99.6%	14,794	50.7%	100.0%	50.7%
Pope County	28,553	100.0%	100.0%	100.0%	35,447	76.0%	99.9%	75.9%
Prairie County					8,074	24.9%	100.0%	24.9%
Pulaski County	343,276	98.0%	100.0%	98.0%	49,404	90.7%	100.0%	90.7%
Randolph County	5,711	100.0%	100.0%	100.0%	12,233	53.2%	98.5%	52.6%
Saline County	74,835	99.2%	100.0%	99.2%	46,563	78.2%	100.0%	78.2%
Scott County	2,725	69.3%	100.0%	69.3%	7,594	34.0%	99.5%	34.0%
Searcy County					7,958	49.3%	99.3%	49.3%
Sebastian County	100,372	99.1%	100.0%	99.1%	27,381	77.6%	100.0%	77.6%
Sevier County	5,857	98.8%	100.0%	98.8%	11,282	65.5%	100.0%	65.5%
Sharp County	3,408	100.0%	100.0%	100.0%	13,958	24.5%	100.0%	24.5%
St. Francis County	11,468	60.5%	100.0%	60.5%	13,971	16.8%	100.0%	16.8%
Stone County					12,457	39.8%	99.6%	39.7%
Union County	17,425	100.0%	100.0%	100.0%	21,701	50.5%	100.0%	50.5%
Van Buren County					16,602	13.7%	99.4%	13.7%
Washington County	166,602	98.6%	100.0%	98.6%	70,349	81.4%	100.0%	81.4%
White County	35,561	89.3%	100.0%	89.3%	43,166	44.8%	100.0%	44.8%
Woodruff County					6,490	31.2%	100.0%	31.2%
Yell County	4,578	99.1%	100.0%	99.1%	16,957	79.1%	99.9%	79.1%
California								
Alameda County	1,653,290	100.0%	100.0%	100.0%	13,459	99.7%	97.1%	96.8%
Alpine County					1,101	40.8%	96.1%	39.1%
Amador County	14,702	99.4%	100.0%	99.4%	24,681	74.2%	99.7%	74.2%
Butte County	184,086	99.1%	100.0%	99.1%	47,170	86.2%	97.9%	85.4%
Calaveras County	11,023	99.9%	100.0%	99.9%	34,579	87.5%	99.4%	87.5%
Colusa County	14,426	100.0%	100.0%	100.0%	7,201	57.8%	98.9%	57.8%
Contra Costa County	1,130,621	99.5%	100.0%	99.5%	19,594	72.8%	99.7%	72.5%
Del Norte County	18,447	99.9%	100.0%	99.9%	9,380	87.5%	92.5%	82.4%
El Dorado County	121,783	99.8%	100.0%	99.8%	68,894	96.2%	99.8%	96.2%

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Fresno County	864,791	100.0%	100.0%	100.0%	129,607	96.7%	99.6%	96.7%
Glenn County	16,451	96.1%	100.0%	96.1%	11,596	78.1%	99.9%	78.1%
Humboldt County	94,526	98.8%	100.0%	98.8%	41,847	47.9%	96.8%	47.9%
Imperial County	145,475	98.9%	100.0%	98.9%	36,352	37.9%	100.0%	37.9%
Inyo County	9,601	100.0%	100.0%	100.0%	8,386	82.8%	93.0%	82.2%
Kern County	770,266	99.7%	100.0%	99.7%	126,497	75.7%	99.8%	75.6%
Kings County	133,726	100.0%	100.0%	100.0%	17,635	99.3%	100.0%	99.3%
Lake County	42,429	91.2%	100.0%	91.2%	21,953	72.5%	99.1%	72.4%
Lassen County	10,192	99.9%	100.0%	99.9%	20,610	58.5%	99.8%	58.5%
Los Angeles County	10,014,393	99.9%	100.0%	99.9%	91,125	66.5%	99.6%	66.4%
Madera County	102,930	100.0%	100.0%	100.0%	54,741	96.5%	99.9%	96.5%
Marin County	241,772	99.6%	99.9%	99.5%	17,894	70.1%	99.7%	70.1%
Mariposa County					17,471	33.5%	97.1%	33.4%
Mendocino County	47,454	96.4%	100.0%	96.4%	40,152	52.2%	91.9%	51.7%
Merced County	227,970	100.0%	100.0%	100.0%	46,790	97.8%	100.0%	97.8%
Modoc County	2,533	90.5%	100.0%	90.5%	6,244	53.5%	98.5%	52.9%
Mono County	7,276	100.0%	100.0%	100.0%	6,974	84.3%	96.1%	81.6%
Monterey County	382,082	100.0%	100.0%	100.0%	53,512	91.5%	96.0%	88.4%
Napa County	119,664	99.0%	100.0%	99.0%	19,753	94.4%	100.0%	94.4%
Nevada County	56,975	97.0%	100.0%	97.0%	42,721	79.3%	99.9%	79.3%
Orange County	3,175,641	98.6%	100.0%	98.6%	10,327	84.9%	100.0%	84.9%
Placer County	325,931	99.0%	100.0%	99.0%	67,211	87.4%	99.6%	87.4%
Plumas County	4,873	90.2%	100.0%	90.2%	13,931	87.2%	97.0%	85.0%
Riverside County	2,278,562	99.7%	100.0%	99.7%	172,171	81.7%	99.9%	81.7%
Sacramento County	1,502,814	98.0%	100.0%	98.0%	38,160	85.6%	100.0%	85.6%
San Benito County	43,496	100.0%	100.0%	100.0%	18,035	96.5%	98.6%	95.9%
San Bernardino County	2,010,252	99.4%	100.0%	99.4%	161,336	56.2%	99.9%	56.2%
San Diego County	3,192,938	98.1%	100.0%	98.1%	150,426	90.9%	99.9%	90.9%
San Francisco County	883,303	100.0%	100.0%	100.0%	2	100.0%	50.0%	50.0%
San Joaquin County	681,683	100.0%	100.0%	100.0%	70,969	98.8%	100.0%	98.8%
San Luis Obispo County	230,786	99.8%	100.0%	99.8%	53,222	90.9%	99.4%	90.3%
San Mateo County	751,924	100.0%	100.0%	100.0%	17,621	100.0%	96.6%	96.6%
Santa Barbara County	415,992	96.5%	99.9%	96.4%	30,535	55.6%	99.6%	55.6%
Santa Clara County	1,906,352	100.0%	100.0%	100.0%	31,218	100.0%	99.3%	99.3%
Santa Cruz County	238,285	100.0%	99.9%	99.9%	35,970	100.0%	99.8%	99.8%
Shasta County	126,167	98.8%	100.0%	98.8%	53,872	64.7%	99.4%	64.6%

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Sierra County	9	100.0%	100.0%	100.0%	2,978	54.9%	75.4%	54.6%
Siskiyou County	14,003	80.8%	100.0%	80.8%	29,721	44.2%	96.2%	44.2%
Solano County	420,308	96.2%	100.0%	96.2%	26,301	53.3%	100.0%	53.3%
Sonoma County	431,500	98.8%	100.0%	98.8%	68,442	80.6%	99.0%	80.4%
Stanislaus County	503,159	100.0%	100.0%	100.0%	46,655	100.0%	99.9%	99.9%
Sutter County	81,514	99.3%	100.0%	99.3%	15,293	62.2%	100.0%	62.2%
Tehama County	30,620	91.8%	100.0%	91.8%	33,296	82.7%	99.7%	82.7%
Trinity County					12,535	23.9%	87.6%	23.9%
Tulare County	386,468	100.0%	100.0%	100.0%	79,391	92.0%	98.8%	92.0%
Tuolumne County	27,513	99.8%	100.0%	99.8%	27,025	93.9%	98.9%	93.6%
Ventura County	817,962	99.7%	100.0%	99.7%	33,005	68.7%	99.0%	68.0%
Yolo County	200,003	94.5%	100.0%	94.5%	20,403	39.6%	100.0%	39.6%
Yuba County	54,922	99.2%	100.0%	99.2%	23,117	79.5%	97.8%	78.4%
Colorado								
Adams County	481,056	98.9%	100.0%	98.9%	30,738	74.6%	100.0%	74.6%
Alamosa County	10,025	100.0%	100.0%	100.0%	6,656	97.4%	100.0%	97.4%
Arapahoe County	635,134	99.4%	100.0%	99.4%	15,964	66.5%	100.0%	66.5%
Archuleta County	5,222	91.7%	100.0%	91.7%	8,543	45.8%	99.5%	45.8%
Baca County					3,585	72.1%	100.0%	72.1%
Bent County	3,578	89.8%	100.0%	89.8%	2,304	64.8%	100.0%	64.8%
Boulder County	292,071	95.5%	100.0%	95.5%	33,977	74.2%	100.0%	74.2%
Broomfield County	68,172	94.9%	100.0%	94.9%	1,065	70.0%	100.0%	70.0%
Chaffee County	11,996	89.1%	100.0%	89.1%	8,031	89.9%	97.5%	87.5%
Cheyenne County					1,876	64.4%	100.0%	64.4%
Clear Creek County					9,605	77.1%	100.0%	77.1%
Conejos County					8,199	97.9%	99.4%	97.3%
Costilla County					3,828	62.7%	99.8%	62.6%
Crowley County					5,857	88.9%	100.0%	88.9%
Custer County					4,954	73.5%	99.6%	73.5%
Delta County	11,361	100.0%	100.0%	100.0%	19,592	98.7%	99.6%	98.4%
Denver County	712,422	99.2%	100.0%	99.2%	3,833	99.4%	100.0%	99.4%
Dolores County					2,074	41.7%	85.8%	41.7%
Douglas County	293,378	99.4%	100.0%	99.4%	49,380	90.5%	100.0%	90.5%
Eagle County	42,132	90.7%	100.0%	90.7%	12,861	64.5%	96.6%	64.2%
El Paso County	625,511	99.3%	100.0%	99.3%	88,324	76.3%	100.0%	76.3%
Elbert County					26,272	78.8%	100.0%	78.8%
Fremont County	34,090	94.0%	100.0%	94.0%	13,931	82.3%	99.9%	82.3%

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Garfield County	43,523	93.6%	100.0%	93.6%	16,246	62.9%	98.2%	62.9%
Gilpin County					6,121	66.5%	100.0%	66.5%
Grand County	2,448	99.0%	100.0%	99.0%	13,076	71.3%	99.7%	71.2%
Gunnison County	6,561	100.0%	100.0%	100.0%	10,685	82.5%	88.8%	79.4%
Hinsdale County					811	61.8%	3.1%	0.0%
Huerfano County	2,891	99.6%	100.0%	99.6%	3,998	58.4%	99.5%	58.3%
Jackson County					1,399	30.8%	97.2%	30.8%
Jefferson County	530,969	99.7%	100.0%	99.7%	49,242	88.3%	100.0%	88.3%
Kiowa County					1,383	59.7%	100.0%	59.7%
Kit Carson County	2,904	100.0%	100.0%	100.0%	4,259	96.5%	100.0%	96.5%
La Plata County	21,505	97.5%	100.0%	97.5%	34,805	83.2%	100.0%	83.2%
Lake County	5,189	98.5%	100.0%	98.5%	2,635	80.8%	98.6%	79.7%
Larimer County	291,459	95.9%	100.0%	95.9%	59,033	73.1%	99.0%	73.1%
Las Animas County	8,572	97.0%	100.0%	97.0%	5,931	51.9%	100.0%	51.9%
Lincoln County					5,608	55.3%	100.0%	55.3%
Logan County	14,579	99.7%	100.0%	99.7%	6,949	52.8%	100.0%	52.8%
Mesa County	132,324	99.4%	100.0%	99.4%	20,883	39.6%	98.9%	39.5%
Mineral County					701	81.9%	77.3%	64.3%
Moffat County	9,347	100.0%	100.0%	100.0%	3,841	83.4%	94.4%	82.1%
Montezuma County	8,194	100.0%	100.0%	100.0%	17,964	66.4%	99.8%	66.4%
Montrose County	22,571	100.0%	100.0%	100.0%	19,643	86.3%	99.7%	86.3%
Morgan County	18,888	99.5%	100.0%	99.5%	9,662	65.8%	100.0%	65.8%
Otero County	11,940	99.6%	100.0%	99.6%	6,492	86.2%	100.0%	86.2%
Ouray County					4,833	96.0%	100.0%	96.0%
Park County					18,556	82.9%	98.9%	81.9%
Phillips County					4,286	22.7%	100.0%	22.7%
Pitkin County	9,871	96.2%	100.0%	96.2%	8,079	80.6%	92.6%	78.1%
Prowers County	7,243	100.0%	100.0%	100.0%	4,921	59.6%	100.0%	59.6%
Pueblo County	140,633	97.2%	100.0%	97.2%	26,895	86.2%	100.0%	86.2%
Rio Blanco County					6,336	70.4%	99.1%	70.4%
Rio Grande County	4,278	100.0%	100.0%	100.0%	6,972	85.4%	99.7%	85.1%
Routt County	12,881	100.0%	100.0%	100.0%	12,852	91.4%	98.4%	91.0%
Saguache County					6,841	100.0%	98.8%	98.8%
San Juan County					762	55.1%	95.0%	55.1%
San Miguel County					8,189	58.2%	99.9%	58.2%
Sedgwick County					2,303	73.0%	100.0%	73.0%
Summit County	22,452	97.5%	100.0%	97.5%	8,549	71.4%	100.0%	71.4%

County or County Equivalent	Urban Areas				Rural Areas			
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Teller County	8,912	98.5%	100.0%	98.5%	16,171	72.3%	100.0%	72.3%
Washington County					4,909	39.7%	100.0%	39.7%
Weld County	228,894	96.5%	100.0%	96.5%	85,351	74.8%	100.0%	74.8%
Yuma County	3,414	59.2%	100.0%	59.2%	6,606	65.5%	100.0%	65.5%
Connecticut								
Fairfield County	898,563	99.9%	99.9%	99.8%	45,260	99.9%	100.0%	99.9%
Hartford County	843,682	98.6%	100.0%	98.6%	49,015	99.3%	100.0%	99.3%
Litchfield County	103,522	99.9%	100.0%	99.9%	77,589	99.6%	100.0%	99.6%
Middlesex County	121,901	99.1%	100.0%	99.1%	40,781	99.5%	100.0%	99.5%
New Haven County	825,841	99.4%	100.0%	99.4%	31,779	99.8%	100.0%	99.8%
New London County	195,783	98.7%	100.0%	98.7%	71,001	99.0%	100.0%	99.0%
Tolland County	92,408	95.4%	100.0%	95.4%	58,513	99.6%	100.0%	99.6%
Windham County	57,677	99.6%	100.0%	99.6%	59,349	99.6%	100.0%	99.6%
Delaware								
Kent County	128,936	97.5%	100.0%	97.5%	49,613	92.8%	100.0%	92.8%
New Castle County	532,117	98.1%	100.0%	98.1%	27,218	94.9%	100.0%	94.9%
Sussex County	133,523	99.5%	99.7%	99.2%	95,753	97.5%	100.0%	97.5%
District of Columbia	702,349	98.1%	100.0%	98.1%				
Florida								
Alachua County	206,289	90.0%	100.0%	90.0%	63,653	68.0%	100.0%	68.0%
Baker County	11,302	96.6%	100.0%	96.6%	17,053	74.8%	96.3%	72.7%
Bay County	158,848	98.7%	100.0%	98.7%	26,433	68.4%	100.0%	68.4%
Bradford County	7,045	100.0%	100.0%	100.0%	20,687	100.0%	100.0%	100.0%
Brevard County	562,133	100.0%	99.9%	99.9%	34,716	100.0%	100.0%	100.0%
Broward County	1,950,335	98.0%	100.0%	98.0%	924	19.0%	99.9%	19.0%
Calhoun County	4,678	99.8%	100.0%	99.8%	9,908	55.5%	100.0%	55.5%
Charlotte County	165,309	99.3%	100.0%	99.3%	19,679	87.0%	99.7%	86.7%
Citrus County	95,805	98.6%	100.0%	98.6%	52,123	85.9%	100.0%	85.9%
Clay County	177,009	100.0%	100.0%	100.0%	39,042	100.0%	100.0%	100.0%
Collier County	332,208	98.4%	99.8%	98.2%	46,274	74.1%	100.0%	74.1%
Columbia County	26,490	83.4%	100.0%	83.4%	44,012	81.0%	100.0%	81.0%
DeSoto County	19,463	100.0%	100.0%	100.0%	18,023	100.0%	100.0%	100.0%
Dixie County	3,738	0.3%	100.0%	0.3%	12,962	1.0%	99.6%	1.0%
Duval County	918,534	100.0%	100.0%	100.0%	31,644	100.0%	100.0%	100.0%
Escambia County	287,189	98.5%	100.0%	98.5%	28,344	69.1%	100.0%	69.1%
Flagler County	95,058	100.0%	100.0%	100.0%	17,009	75.7%	100.0%	75.7%
Franklin County	3,735	99.2%	99.8%	99.0%	8,001	93.8%	100.0%	93.8%

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Gadsden County	15,290	97.0%	100.0%	97.0%	30,604	89.0%	100.0%	89.0%
Gilchrist County	2,789	0.0%	100.0%	0.0%	15,460	30.3%	100.0%	30.3%
Glades County	3,855	82.3%	100.0%	82.3%	9,869	59.9%	100.0%	59.9%
Gulf County	3,662	99.9%	100.0%	99.9%	12,502	85.3%	99.8%	85.0%
Hamilton County	3,901	50.3%	100.0%	50.3%	10,409	69.5%	100.0%	69.5%
Hardee County	14,301	100.0%	100.0%	100.0%	12,944	100.0%	100.0%	100.0%
Hendry County	25,021	93.2%	100.0%	93.2%	16,532	57.6%	100.0%	57.6%
Hernando County	151,356	100.0%	100.0%	100.0%	39,481	89.6%	100.0%	89.6%
Highlands County	80,998	100.0%	100.0%	100.0%	24,414	100.0%	100.0%	100.0%
Hillsborough County	1,376,529	99.9%	100.0%	99.9%	60,320	95.3%	99.9%	95.3%
Holmes County	3,990	98.0%	100.0%	98.0%	15,487	27.2%	100.0%	27.2%
Indian River County	145,981	100.0%	99.8%	99.8%	11,432	100.0%	100.0%	100.0%
Jackson County	11,530	82.4%	100.0%	82.4%	36,775	41.0%	100.0%	41.0%
Jefferson County					14,286	31.2%	100.0%	31.2%
Lafayette County					8,732	53.5%	99.9%	53.5%
Lake County	281,815	100.0%	100.0%	100.0%	74,676	100.0%	100.0%	100.0%
Lee County	700,892	92.7%	99.9%	92.6%	53,712	81.9%	99.4%	81.3%
Leon County	253,430	96.9%	100.0%	96.9%	39,072	87.9%	100.0%	87.9%
Levy County	3,169	33.5%	100.0%	33.5%	37,599	14.2%	99.9%	14.2%
Liberty County					8,456	32.2%	99.8%	32.0%
Madison County	3,628	99.2%	100.0%	99.2%	14,901	51.7%	100.0%	51.7%
Manatee County	364,628	99.9%	100.0%	99.9%	30,206	93.1%	100.0%	93.1%
Marion County	244,789	96.7%	100.0%	96.7%	115,175	82.4%	100.0%	82.4%
Martin County	144,661	100.0%	99.9%	99.9%	16,245	100.0%	100.0%	100.0%
Miami-Dade County	2,735,742	96.7%	99.9%	96.6%	25,839	61.9%	99.6%	61.9%
Monroe County	67,545	96.1%	99.4%	95.5%	7,482	91.7%	99.5%	91.5%
Nassau County	42,808	96.7%	100.0%	96.7%	43,024	86.9%	100.0%	86.9%
Okaloosa County	177,304	95.5%	100.0%	95.5%	29,951	78.8%	98.5%	78.7%
Okeechobee County	25,587	100.0%	100.0%	100.0%	15,950	100.0%	100.0%	100.0%
Orange County	1,332,905	100.0%	100.0%	100.0%	47,704	100.0%	100.0%	100.0%
Osceola County	316,883	100.0%	100.0%	100.0%	51,073	100.0%	100.0%	100.0%
Palm Beach County	1,451,947	98.0%	100.0%	97.9%	33,992	53.8%	100.0%	53.8%
Pasco County	483,924	99.5%	100.0%	99.5%	55,669	92.1%	100.0%	92.1%
Pinellas County	972,498	99.9%	99.9%	99.8%	2,781	99.5%	99.9%	99.4%
Polk County	600,291	99.1%	100.0%	99.1%	107,677	75.0%	100.0%	75.0%
Putnam County	32,501	93.5%	100.0%	93.5%	41,660	73.2%	100.0%	73.2%
Santa Rosa County	134,035	96.5%	100.0%	96.5%	45,302	68.9%	99.8%	68.9%

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Sarasota County	403,422	99.4%	100.0%	99.4%	23,266	89.9%	100.0%	89.9%
Seminole County	450,969	100.0%	100.0%	100.0%	16,850	100.0%	100.0%	100.0%
St. Johns County	184,015	100.0%	99.9%	99.9%	70,242	100.0%	100.0%	100.0%
St. Lucie County	301,637	100.0%	100.0%	100.0%	19,489	100.0%	100.0%	100.0%
Sumter County	70,990	97.0%	100.0%	97.0%	57,758	88.4%	100.0%	88.4%
Suwannee County	7,191	93.3%	100.0%	93.3%	37,000	81.9%	100.0%	81.9%
Taylor County	6,892	98.3%	100.0%	98.3%	14,731	51.2%	100.0%	51.2%
Union County	4,493	37.7%	100.0%	37.7%	10,447	61.2%	100.0%	61.2%
Volusia County	487,251	100.0%	99.9%	99.9%	60,284	100.0%	100.0%	100.0%
Wakulla County	12,080	99.0%	100.0%	99.0%	20,381	89.0%	99.9%	89.0%
Walton County	23,321	99.0%	99.5%	98.5%	48,050	70.5%	100.0%	70.5%
Washington County	3,838	100.0%	100.0%	100.0%	21,039	25.3%	100.0%	25.3%
Georgia								
Appling County	5,260	100.0%	100.0%	100.0%	13,247	31.6%	99.7%	31.6%
Atkinson County					8,297	63.0%	100.0%	63.0%
Bacon County	3,373	100.0%	100.0%	100.0%	7,812	65.5%	100.0%	65.5%
Baker County					3,092	2.4%	100.0%	2.4%
Baldwin County	28,819	96.7%	100.0%	96.7%	16,004	92.4%	100.0%	92.4%
Banks County	1,159	84.4%	100.0%	84.4%	17,826	74.3%	100.0%	74.3%
Barrow County	55,722	99.2%	100.0%	99.2%	25,085	97.1%	100.0%	97.1%
Bartow County	67,835	99.1%	100.0%	99.1%	38,571	86.5%	100.0%	86.5%
Ben Hill County	11,072	96.8%	100.0%	96.8%	5,715	78.9%	100.0%	78.9%
Berrien County	4,519	99.0%	100.0%	99.0%	14,733	80.7%	100.0%	80.7%
Bibb County	131,586	97.0%	100.0%	97.0%	21,509	96.4%	100.0%	96.4%
Bleckley County	6,169	49.8%	100.0%	49.8%	6,669	37.3%	100.0%	37.3%
Brantley County	105	100.0%	100.0%	100.0%	18,792	99.5%	100.0%	99.5%
Brooks County	4,420	98.9%	100.0%	98.9%	11,093	74.6%	100.0%	74.6%
Bryan County	16,639	94.1%	100.0%	94.1%	21,470	97.4%	100.0%	97.4%
Bulloch County	37,281	100.0%	100.0%	100.0%	40,014	100.0%	100.0%	100.0%
Burke County	5,349	99.0%	100.0%	99.0%	17,074	63.2%	100.0%	63.2%
Butts County	5,277	100.0%	100.0%	100.0%	18,916	73.0%	100.0%	73.0%
Calhoun County					6,352	41.7%	100.0%	41.7%
Camden County	35,155	98.9%	100.0%	98.9%	18,521	89.1%	100.0%	89.1%
Candler County	3,493	100.0%	100.0%	100.0%	7,343	100.0%	100.0%	100.0%
Carroll County	67,549	99.7%	100.0%	99.7%	50,572	81.0%	100.0%	81.0%
Catoosa County	48,242	99.7%	100.0%	99.7%	19,175	96.7%	100.0%	96.7%
Charlton County	5,586	69.9%	100.0%	69.9%	7,382	59.2%	100.0%	59.2%

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Chatham County	274,500	96.1%	100.0%	96.1%	14,695	92.1%	100.0%	92.1%
Chattahoochee County	5,691	99.6%	100.0%	99.6%	4,993	4.7%	100.0%	4.7%
Chattooga County	10,419	100.0%	100.0%	100.0%	14,371	95.6%	98.9%	95.2%
Cherokee County	206,709	98.4%	100.0%	98.4%	47,439	92.5%	100.0%	92.5%
Clarke County	119,193	99.8%	100.0%	99.8%	8,135	93.5%	100.0%	93.5%
Clay County					2,887	63.8%	99.7%	63.8%
Clayton County	286,460	98.2%	100.0%	98.2%	3,138	97.9%	100.0%	97.9%
Clinch County	2,581	69.1%	100.0%	69.1%	4,067	50.1%	100.0%	50.1%
Cobb County	754,868	98.0%	100.0%	98.0%	1,996	95.7%	100.0%	95.7%
Coffee County	14,246	96.1%	100.0%	96.1%	28,847	88.2%	100.0%	88.2%
Colquitt County	18,402	98.3%	100.0%	98.3%	27,190	83.6%	100.0%	83.6%
Columbia County	125,485	99.1%	100.0%	99.1%	28,802	94.5%	100.0%	94.5%
Cook County	6,785	97.1%	100.0%	97.1%	10,377	79.8%	100.0%	79.8%
Coweta County	95,183	98.0%	100.0%	98.0%	50,674	93.4%	100.0%	93.4%
Crawford County					12,318	93.2%	100.0%	93.2%
Crisp County	11,884	99.3%	100.0%	99.3%	10,717	61.2%	100.0%	61.2%
Dade County	4,514	99.8%	100.0%	99.8%	11,712	89.4%	100.0%	89.4%
Dawson County	4,697	98.2%	100.0%	98.2%	20,386	85.3%	100.0%	85.3%
DeKalb County	754,316	98.7%	100.0%	98.7%	2,231	97.8%	100.0%	97.8%
Decatur County	11,522	98.5%	100.0%	98.5%	15,053	46.3%	100.0%	46.3%
Dodge County	5,672	98.5%	100.0%	98.5%	15,033	52.5%	100.0%	52.5%
Dooly County	6,045	97.7%	100.0%	97.7%	7,661	43.4%	100.0%	43.4%
Dougherty County	78,042	96.7%	100.0%	96.7%	13,197	96.2%	100.0%	96.2%
Douglas County	121,663	97.8%	100.0%	97.8%	23,665	96.1%	100.0%	96.1%
Early County	3,439	52.7%	100.0%	52.7%	6,808	35.8%	100.0%	35.8%
Echols County					4,000	0.0%	100.0%	0.0%
Effingham County	19,523	98.6%	100.0%	98.6%	42,667	94.4%	100.0%	94.4%
Elbert County	5,656	99.9%	100.0%	99.9%	13,464	76.2%	99.9%	76.2%
Emanuel County	7,370	100.0%	100.0%	100.0%	15,241	92.5%	100.0%	92.5%
Evans County	4,002	94.6%	100.0%	94.6%	6,719	74.3%	100.0%	74.3%
Fannin County					25,963	90.4%	99.5%	90.0%
Fayette County	92,663	98.5%	100.0%	98.5%	20,795	96.3%	100.0%	96.3%
Floyd County	61,667	96.8%	100.0%	96.8%	36,259	90.1%	100.0%	90.1%
Forsyth County	211,254	99.1%	100.0%	99.1%	25,352	98.4%	100.0%	98.4%
Franklin County	2,514	100.0%	100.0%	100.0%	20,509	79.2%	100.0%	79.2%
Fulton County	1,035,855	98.7%	100.0%	98.7%	14,216	76.8%	100.0%	76.8%
Gilmer County	3,682	81.6%	100.0%	81.6%	27,132	81.5%	99.2%	80.7%

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Glascocock County					2,995	1.0%	100.0%	1.0%
Glynn County	66,783	97.5%	100.0%	97.5%	18,436	93.5%	99.5%	93.0%
Gordon County	27,751	97.8%	100.0%	97.8%	29,933	81.8%	100.0%	81.8%
Grady County	9,187	98.7%	100.0%	98.7%	15,561	76.0%	100.0%	76.0%
Greene County	2,894	99.7%	100.0%	99.7%	14,804	62.7%	100.0%	62.7%
Gwinnett County	922,373	99.0%	100.0%	99.0%	5,404	95.9%	100.0%	95.9%
Habersham County	18,360	93.8%	100.0%	93.8%	27,024	90.9%	100.0%	90.9%
Hall County	158,538	99.5%	100.0%	99.5%	43,603	91.6%	100.0%	91.6%
Hancock County	2,713	6.2%	100.0%	6.2%	5,635	9.1%	99.8%	9.1%
Haralson County	6,518	100.0%	100.0%	100.0%	23,015	100.0%	100.0%	100.0%
Harris County	1,107	99.7%	100.0%	99.7%	33,368	86.9%	100.0%	86.9%
Hart County	6,486	99.2%	100.0%	99.2%	19,612	94.1%	100.0%	94.1%
Heard County					11,879	58.8%	100.0%	58.8%
Henry County	196,930	99.8%	100.0%	99.8%	33,276	97.8%	100.0%	97.8%
Houston County	136,071	97.5%	100.0%	97.5%	19,388	98.6%	100.0%	98.6%
Irwin County	3,014	96.2%	100.0%	96.2%	6,384	44.7%	100.0%	44.7%
Jackson County	27,369	96.6%	100.0%	96.6%	43,048	88.4%	100.0%	88.4%
Jasper County	2,523	84.7%	100.0%	84.7%	11,517	55.8%	100.0%	55.8%
Jeff Davis County	4,566	91.1%	100.0%	91.1%	10,463	59.8%	100.0%	59.8%
Jefferson County	2,850	0.1%	100.0%	0.1%	12,580	11.0%	100.0%	11.0%
Jenkins County	2,679	99.1%	100.0%	99.1%	6,004	70.7%	100.0%	70.7%
Johnson County	3,281	0.0%	100.0%	0.0%	6,427	45.7%	100.0%	45.7%
Jones County	9,074	97.2%	100.0%	97.2%	19,542	80.6%	100.0%	80.6%
Lamar County	7,253	97.3%	100.0%	97.3%	11,740	54.3%	100.0%	54.3%
Lanier County	2,971	93.4%	100.0%	93.4%	7,369	82.3%	100.0%	82.3%
Laurens County	20,329	98.7%	100.0%	98.7%	26,996	31.3%	100.0%	31.3%
Lee County	18,539	98.0%	100.0%	98.0%	11,224	81.9%	100.0%	81.9%
Liberty County	44,550	97.3%	100.0%	97.3%	16,945	86.1%	100.0%	86.1%
Lincoln County					7,915	100.0%	98.4%	98.4%
Long County	3,029	92.6%	100.0%	92.6%	15,969	81.2%	100.0%	81.2%
Lowndes County	83,335	93.1%	100.0%	93.1%	32,984	78.5%	100.0%	78.5%
Lumpkin County	5,042	68.6%	100.0%	68.6%	27,913	87.4%	100.0%	87.4%
Macon County	5,697	68.7%	100.0%	68.7%	7,446	68.0%	100.0%	68.0%
Madison County	2,355	99.5%	100.0%	99.5%	27,295	88.5%	100.0%	88.5%
Marion County					8,351	66.8%	100.0%	66.8%
McDuffie County	8,444	99.3%	100.0%	99.3%	13,086	71.8%	100.0%	71.8%
McIntosh County	3,699	99.7%	100.0%	99.7%	10,640	95.5%	100.0%	95.5%

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Meriwether County	3,580	100.0%	100.0%	100.0%	17,488	42.3%	100.0%	42.3%
Miller County					5,686	33.0%	100.0%	33.0%
Mitchell County	9,715	84.1%	100.0%	84.1%	12,477	46.5%	100.0%	46.5%
Monroe County	5,356	73.7%	100.0%	73.7%	22,162	48.8%	100.0%	48.8%
Montgomery County	118	100.0%	100.0%	100.0%	9,075	38.7%	100.0%	38.7%
Morgan County	4,143	99.8%	100.0%	99.8%	14,709	28.2%	100.0%	28.2%
Murray County	11,939	99.9%	100.0%	99.9%	27,982	97.2%	99.9%	97.1%
Muscogee County	187,595	98.8%	100.0%	98.8%	6,565	93.2%	100.0%	93.2%
Newton County	74,617	99.9%	100.0%	99.9%	34,921	91.2%	100.0%	91.2%
Oconee County	19,070	99.8%	100.0%	99.8%	20,201	82.2%	100.0%	82.2%
Oglethorpe County	113	97.3%	100.0%	97.3%	14,940	76.7%	100.0%	76.7%
Paulding County	129,543	99.1%	100.0%	99.1%	34,491	97.1%	100.0%	97.1%
Peach County	16,435	93.3%	100.0%	93.3%	10,862	69.8%	100.0%	69.8%
Pickens County	8,575	96.5%	100.0%	96.5%	23,404	88.2%	100.0%	88.2%
Pierce County	3,972	100.0%	100.0%	100.0%	15,417	69.9%	100.0%	69.9%
Pike County	194	100.0%	100.0%	100.0%	18,434	31.7%	100.0%	31.7%
Polk County	20,379	99.8%	100.0%	99.8%	22,091	94.1%	100.0%	94.1%
Pulaski County	3,954	100.0%	100.0%	100.0%	7,115	56.7%	100.0%	56.7%
Putnam County	4,138	100.0%	100.0%	100.0%	17,671	85.6%	100.0%	85.6%
Quitman County	621	100.0%	100.0%	100.0%	1,658	49.0%	100.0%	49.0%
Rabun County	3,227	95.4%	100.0%	95.4%	13,640	89.1%	100.0%	89.1%
Randolph County	3,063	96.9%	100.0%	96.9%	3,770	65.8%	99.0%	64.8%
Richmond County	182,628	95.9%	100.0%	95.9%	18,926	97.0%	100.0%	97.0%
Rockdale County	76,798	98.3%	100.0%	98.3%	13,796	99.4%	100.0%	99.4%
Schley County					5,236	77.1%	100.0%	77.1%
Screven County	2,897	94.9%	100.0%	94.9%	11,041	100.0%	100.0%	100.0%
Seminole County	2,579	95.2%	100.0%	95.2%	5,736	71.4%	100.0%	71.4%
Spalding County	38,282	98.2%	100.0%	98.2%	27,810	91.3%	100.0%	91.3%
Stephens County	10,615	95.6%	100.0%	95.6%	15,420	92.2%	100.0%	92.2%
Stewart County					6,197	55.2%	99.8%	55.2%
Sumter County	16,715	96.8%	100.0%	96.8%	13,018	48.7%	100.0%	48.7%
Talbot County	378	97.4%	100.0%	97.4%	5,894	80.7%	100.0%	80.7%
Taliaferro County					1,608	91.0%	100.0%	91.0%
Tattnall County	7,932	72.2%	100.0%	72.2%	17,459	71.2%	100.0%	71.2%
Taylor County					8,039	84.7%	100.0%	84.7%
Telfair County	8,004	85.5%	100.0%	85.5%	7,872	63.9%	100.0%	63.9%
Terrell County	4,191	94.2%	100.0%	94.2%	4,420	59.5%	100.0%	59.5%

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Thomas County	23,668	99.1%	100.0%	99.1%	20,780	79.3%	100.0%	79.3%
Tift County	23,500	95.4%	100.0%	95.4%	17,071	75.3%	100.0%	75.3%
Toombs County	13,129	84.0%	100.0%	84.0%	13,758	45.2%	100.0%	45.2%
Towns County					11,851	95.2%	99.6%	94.9%
Treutlen County	2,630	19.7%	100.0%	19.7%	4,179	8.4%	100.0%	8.4%
Troup County	38,727	99.9%	100.0%	99.9%	31,307	85.2%	100.0%	85.2%
Turner County	3,686	99.3%	100.0%	99.3%	4,226	51.5%	100.0%	51.5%
Twiggs County					8,188	38.9%	100.0%	38.9%
Union County					24,000	93.6%	100.0%	93.5%
Upson County	13,477	100.0%	100.0%	100.0%	12,738	85.5%	100.0%	85.5%
Walker County	38,549	99.0%	100.0%	99.0%	30,861	91.4%	99.8%	91.2%
Walton County	52,579	89.4%	100.0%	89.4%	40,923	89.1%	100.0%	89.1%
Ware County	25,185	98.7%	100.0%	98.7%	10,495	57.6%	100.0%	57.6%
Warren County					5,251	0.0%	100.0%	0.0%
Washington County	6,905	100.0%	100.0%	100.0%	13,481	50.3%	100.0%	50.3%
Wayne County	12,285	85.1%	100.0%	85.1%	17,523	78.2%	100.0%	78.2%
Webster County					2,610	43.6%	99.8%	43.6%
Wheeler County					7,879	48.1%	100.0%	48.1%
White County	4,622	95.6%	100.0%	95.6%	25,345	88.6%	100.0%	88.6%
Whitfield County	73,542	100.0%	100.0%	100.0%	30,520	100.0%	100.0%	100.0%
Wilcox County					8,812	62.5%	100.0%	62.5%
Wilkes County	3,124	100.0%	100.0%	100.0%	6,752	100.0%	100.0%	100.0%
Wilkinson County					9,036	60.1%	100.0%	60.1%
Worth County	6,287	97.1%	100.0%	97.1%	14,012	58.8%	100.0%	58.8%
Hawaii								
Hawaii County	119,357	95.6%	100.0%	95.6%	81,625	82.9%	99.6%	82.6%
Honolulu County	968,823	99.0%	99.9%	98.9%	11,257	77.5%	100.0%	77.5%
Kalawao County					88	5.7%	100.0%	5.7%
Kauai County	61,284	96.4%	100.0%	96.4%	10,849	62.2%	97.5%	62.1%
Maui County	138,101	99.2%	99.9%	99.2%	29,106	64.2%	98.0%	63.8%
Idaho								
Ada County	432,420	99.3%	100.0%	99.3%	37,475	60.5%	99.9%	60.5%
Adams County					4,250	46.4%	97.6%	46.1%
Bannock County	71,239	96.9%	100.0%	96.9%	15,897	40.9%	99.9%	40.9%
Bear Lake County					6,050	24.4%	98.9%	24.4%
Benewah County	2,543	0.0%	100.0%	0.0%	6,683	37.2%	76.2%	36.0%
Bingham County	19,577	99.0%	100.0%	99.0%	26,654	51.5%	99.9%	51.5%

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Blaine County	14,677	92.2%	100.0%	92.2%	7,920	62.8%	94.8%	58.5%
Boise County					7,634	28.3%	81.5%	23.2%
Bonner County	11,550	100.0%	100.0%	100.0%	33,175	99.7%	99.4%	99.2%
Bonneville County	95,801	98.7%	100.0%	98.7%	21,035	73.8%	99.9%	73.8%
Boundary County	2,745	100.0%	100.0%	100.0%	9,202	98.4%	93.0%	91.8%
Butte County					2,611	49.8%	98.4%	49.5%
Camas County					1,127	0.0%	100.0%	0.0%
Canyon County	167,909	96.8%	100.0%	96.8%	55,542	54.9%	100.0%	54.9%
Caribou County	2,604	99.8%	100.0%	99.8%	4,456	16.6%	99.2%	16.5%
Cassia County	11,203	98.3%	100.0%	98.3%	12,660	53.5%	99.9%	53.5%
Clark County					852	92.8%	98.9%	92.8%
Clearwater County	3,545	0.0%	100.0%	0.0%	5,213	0.1%	67.8%	0.1%
Custer County					4,280	67.4%	91.4%	61.3%
Elmore County	18,676	89.6%	100.0%	89.6%	8,583	44.6%	99.3%	44.6%
Franklin County	4,388	96.8%	100.0%	96.8%	9,338	53.6%	99.1%	53.6%
Fremont County	3,600	95.0%	100.0%	95.0%	9,568	67.6%	100.0%	67.6%
Gem County	9,320	98.7%	100.0%	98.7%	8,313	54.5%	99.9%	54.5%
Gooding County	6,312	97.8%	100.0%	97.8%	8,884	24.5%	100.0%	24.5%
Idaho County	3,176	0.0%	100.0%	0.0%	13,337	36.2%	90.2%	36.2%
Jefferson County	9,093	94.7%	100.0%	94.7%	20,316	54.0%	100.0%	54.0%
Jerome County	11,053	97.8%	100.0%	97.8%	12,957	60.8%	100.0%	60.8%
Kootenai County	115,529	100.0%	100.0%	100.0%	45,973	95.2%	98.6%	94.9%
Latah County	24,409	100.0%	100.0%	100.0%	15,725	39.2%	97.5%	37.3%
Lemhi County	2,556	67.5%	100.0%	67.5%	5,405	28.3%	91.8%	28.1%
Lewis County					3,861	47.7%	99.8%	47.7%
Lincoln County					5,360	31.2%	100.0%	31.2%
Madison County	26,989	91.9%	100.0%	91.9%	12,315	58.4%	100.0%	58.4%
Minidoka County	11,263	96.3%	100.0%	96.3%	9,561	35.5%	100.0%	35.5%
Nez Perce County	32,205	99.4%	100.0%	99.4%	8,203	26.9%	95.6%	26.9%
Oneida County					4,488	81.4%	99.6%	81.1%
Owyhee County	2,580	97.8%	100.0%	97.8%	9,112	31.0%	98.8%	31.0%
Payette County	13,014	97.7%	100.0%	97.7%	10,536	69.8%	100.0%	69.8%
Power County	4,335	95.8%	100.0%	95.8%	3,432	33.1%	99.9%	33.1%
Shoshone County	5,537	42.8%	100.0%	42.8%	7,254	55.6%	91.7%	54.0%
Teton County					11,640	84.9%	100.0%	84.9%
Twin Falls County	58,301	97.3%	100.0%	97.3%	27,776	49.7%	99.9%	49.7%
Valley County					11,041	50.6%	99.5%	50.6%

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Washington County	5,346	98.0%	100.0%	98.0%	4,815	32.7%	99.8%	32.6%
Illinois								
Adams County	44,018	99.9%	100.0%	99.9%	21,673	67.1%	100.0%	67.1%
Alexander County	2,449	0.6%	100.0%	0.6%	3,611	0.1%	99.7%	0.1%
Bond County	5,906	95.9%	100.0%	95.9%	10,724	18.1%	100.0%	18.1%
Boone County	43,062	99.7%	100.0%	99.7%	10,515	87.6%	100.0%	87.6%
Brown County	3,791	50.0%	100.0%	50.0%	2,765	47.3%	100.0%	47.3%
Bureau County	13,501	98.5%	100.0%	98.5%	19,492	75.5%	100.0%	75.5%
Calhoun County					4,802	39.2%	100.0%	39.2%
Carroll County	2,447	98.9%	100.0%	98.9%	11,865	68.9%	100.0%	68.9%
Cass County	6,085	96.3%	100.0%	96.3%	6,175	64.2%	100.0%	64.2%
Champaign County	180,801	98.5%	100.0%	98.5%	29,179	74.5%	100.0%	74.5%
Christian County	17,752	98.9%	100.0%	98.9%	14,909	68.7%	100.0%	68.7%
Clark County	6,217	96.9%	100.0%	96.9%	9,379	53.5%	100.0%	53.5%
Clay County	4,524	100.0%	100.0%	100.0%	8,729	78.5%	100.0%	78.5%
Clinton County	19,147	99.9%	100.0%	99.9%	18,492	42.9%	100.0%	42.9%
Coles County	37,859	95.0%	100.0%	95.0%	13,026	55.4%	100.0%	55.4%
Cook County	5,177,991	99.2%	100.0%	99.2%	2,502	93.8%	100.0%	93.8%
Crawford County	7,093	99.6%	100.0%	99.6%	11,714	48.1%	100.0%	48.1%
Cumberland County					10,808	44.7%	100.0%	44.7%
De Witt County	7,897	95.6%	100.0%	95.6%	7,872	71.5%	100.0%	71.5%
DeKalb County	82,412	95.2%	100.0%	95.2%	21,731	92.7%	100.0%	92.7%
Douglas County	7,338	96.9%	100.0%	96.9%	12,141	61.1%	100.0%	61.1%
DuPage County	928,055	99.3%	100.0%	99.3%	534	68.5%	100.0%	68.5%
Edgar County	8,316	99.0%	100.0%	99.0%	9,044	78.8%	100.0%	78.8%
Edwards County					6,392	66.3%	100.0%	66.3%
Effingham County	13,596	98.8%	100.0%	98.8%	20,612	49.0%	100.0%	49.0%
Fayette County	6,587	0.2%	100.0%	0.2%	14,829	31.3%	100.0%	31.3%
Ford County	7,436	98.9%	100.0%	98.9%	5,828	55.5%	100.0%	55.5%
Franklin County	19,599	96.6%	100.0%	96.6%	19,102	61.2%	100.0%	61.2%
Fulton County	12,886	90.2%	100.0%	90.2%	21,958	60.7%	100.0%	60.7%
Gallatin County					5,058	68.2%	100.0%	68.2%
Greene County	3,720	98.1%	100.0%	98.1%	9,324	69.0%	100.0%	69.0%
Grundy County	38,267	100.0%	100.0%	100.0%	12,703	99.9%	100.0%	99.9%
Hamilton County	2,439	89.6%	100.0%	89.6%	5,724	50.3%	100.0%	50.3%
Hancock County	4,824	95.8%	100.0%	95.8%	13,020	69.3%	100.0%	69.3%
Hardin County					3,910	100.0%	99.5%	99.5%

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Henderson County	26	0.0%	100.0%	0.0%	6,683	41.2%	99.7%	40.9%
Henry County	24,382	98.8%	100.0%	98.8%	24,708	75.1%	100.0%	75.1%
Iroquois County	7,640	74.3%	100.0%	74.3%	19,964	46.8%	100.0%	46.8%
Jackson County	34,616	95.2%	100.0%	95.2%	22,803	97.1%	100.0%	97.1%
Jasper County	2,472	98.2%	100.0%	98.2%	7,137	8.2%	100.0%	8.2%
Jefferson County	15,116	100.0%	100.0%	100.0%	22,704	32.1%	100.0%	32.1%
Jersey County	8,881	99.1%	100.0%	99.1%	12,966	25.6%	99.8%	25.6%
Jo Daviess County	5,627	98.0%	100.0%	98.0%	15,739	67.8%	100.0%	67.8%
Johnson County					12,456	26.8%	100.0%	26.8%
Kane County	513,628	99.2%	100.0%	99.2%	20,588	92.8%	100.0%	92.8%
Kankakee County	82,023	99.2%	100.0%	99.2%	27,998	87.4%	100.0%	87.4%
Kendall County	110,590	99.2%	100.0%	99.2%	17,312	86.7%	100.0%	86.7%
Knox County	36,966	99.7%	100.0%	99.7%	13,146	62.0%	100.0%	62.0%
LaSalle County	76,649	99.0%	100.0%	99.0%	32,781	94.7%	100.0%	94.7%
Lake County	691,755	99.0%	100.0%	99.0%	9,077	97.7%	100.0%	97.7%
Lawrence County	6,665	93.2%	100.0%	93.2%	9,100	26.4%	100.0%	26.4%
Lee County	15,401	89.2%	100.0%	89.2%	18,822	71.8%	100.0%	71.8%
Livingston County	19,839	95.6%	100.0%	95.6%	15,922	70.7%	100.0%	70.7%
Logan County	16,838	97.1%	100.0%	97.1%	12,087	52.0%	100.0%	52.0%
Macon County	87,813	99.8%	100.0%	99.8%	16,899	61.6%	100.0%	61.6%
Macoupin County	18,725	98.3%	100.0%	98.3%	26,588	56.4%	100.0%	56.4%
Madison County	228,454	99.9%	100.0%	99.9%	36,007	84.3%	100.0%	84.3%
Marion County	20,073	99.9%	100.0%	99.9%	17,547	45.7%	100.0%	45.7%
Marshall County					11,534	76.8%	100.0%	76.8%
Mason County	2,957	99.4%	100.0%	99.4%	10,608	55.0%	100.0%	55.0%
Massac County	7,043	96.8%	100.0%	96.8%	7,037	24.3%	100.0%	24.3%
McDonough County	20,312	98.7%	100.0%	98.7%	9,643	89.6%	100.0%	89.6%
McHenry County	277,400	99.8%	100.0%	99.8%	31,170	96.6%	100.0%	96.6%
McLean County	141,903	99.2%	100.0%	99.2%	30,919	72.4%	100.0%	72.4%
Menard County	2,930	96.1%	100.0%	96.1%	9,358	43.1%	100.0%	43.1%
Mercer County	3,540	99.7%	100.0%	99.7%	12,061	52.1%	100.0%	52.1%
Monroe County	19,864	100.0%	100.0%	100.0%	14,470	92.8%	100.0%	92.8%
Montgomery County	16,410	92.4%	100.0%	92.4%	12,191	40.8%	100.0%	40.8%
Morgan County	20,895	96.7%	100.0%	96.7%	13,080	55.6%	100.0%	55.6%
Moultrie County	4,466	98.6%	100.0%	98.6%	10,250	57.5%	100.0%	57.5%
Ogle County	26,322	98.2%	100.0%	98.2%	24,601	76.7%	100.0%	76.7%
Peoria County	152,670	98.8%	100.0%	98.8%	27,951	84.9%	100.0%	84.9%

County or County Equivalent	Urban Areas				Rural Areas			
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Perry County	11,905	99.2%	100.0%	99.2%	9,269	71.0%	100.0%	71.0%
Piatt County	5,164	98.6%	100.0%	98.6%	11,232	74.3%	100.0%	74.3%
Pike County	3,961	99.2%	100.0%	99.2%	11,650	68.4%	100.0%	68.4%
Pope County					4,212	77.0%	99.9%	76.9%
Pulaski County					5,463	30.4%	100.0%	30.4%
Putnam County					5,738	66.8%	100.0%	66.8%
Randolph County	17,784	98.5%	100.0%	98.5%	14,322	71.6%	100.0%	71.6%
Richland County	8,735	99.5%	100.0%	99.5%	7,028	41.4%	100.0%	41.4%
Rock Island County	127,291	98.7%	100.0%	98.7%	16,186	82.4%	100.0%	82.4%
Saline County	13,362	96.5%	100.0%	96.5%	10,544	50.5%	100.0%	50.5%
Sangamon County	167,012	98.2%	100.0%	98.2%	28,336	79.9%	100.0%	79.9%
Schuyler County	2,976	99.7%	100.0%	99.7%	3,931	23.5%	100.0%	23.5%
Scott County					4,926	84.0%	100.0%	84.0%
Shelby County	4,633	97.8%	100.0%	97.8%	17,108	40.0%	100.0%	40.0%
St. Clair County	234,749	99.8%	100.0%	99.8%	26,310	88.3%	100.0%	88.3%
Stark County					5,427	57.5%	100.0%	57.5%
Stephenson County	25,952	99.2%	100.0%	99.2%	18,801	67.1%	100.0%	67.1%
Tazewell County	104,382	97.9%	100.0%	97.9%	27,946	72.4%	100.0%	72.4%
Union County	5,558	95.6%	100.0%	95.6%	11,283	54.4%	100.0%	54.4%
Vermilion County	51,758	97.5%	100.0%	97.5%	25,048	76.0%	100.0%	76.0%
Wabash County	6,880	100.0%	100.0%	100.0%	4,669	32.2%	100.0%	32.2%
Warren County	8,810	99.0%	100.0%	99.0%	8,222	39.7%	100.0%	39.7%
Washington County	3,490	84.2%	100.0%	84.2%	10,505	35.2%	100.0%	35.2%
Wayne County	4,781	99.0%	100.0%	99.0%	11,551	73.1%	100.0%	73.1%
White County	4,915	98.0%	100.0%	98.0%	8,750	53.0%	100.0%	53.0%
Whiteside County	34,778	97.4%	100.0%	97.4%	20,848	69.7%	100.0%	69.7%
Will County	663,797	99.2%	100.0%	99.2%	28,513	99.3%	100.0%	99.3%
Williamson County	43,472	96.7%	100.0%	96.7%	23,584	63.1%	100.0%	63.1%
Winnebago County	261,341	99.1%	100.0%	99.1%	22,740	76.7%	100.0%	76.7%
Woodford County	16,986	98.5%	100.0%	98.5%	21,477	76.3%	100.0%	76.3%
Indiana								
Adams County	16,314	100.0%	100.0%	100.0%	19,318	97.4%	100.0%	97.4%
Allen County	329,368	99.2%	100.0%	99.2%	45,961	94.8%	100.0%	94.8%
Bartholomew County	53,535	98.7%	100.0%	98.7%	29,211	81.5%	100.0%	81.5%
Benton County					8,652	86.8%	100.0%	86.8%
Blackford County	5,581	100.0%	100.0%	100.0%	6,349	100.0%	100.0%	100.0%
Boone County	40,869	99.8%	100.0%	99.8%	26,119	85.6%	100.0%	85.6%

County or County Equivalent	Urban Areas				Rural Areas			
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Brown County					15,234	58.2%	100.0%	58.2%
Carroll County	3,736	99.6%	100.0%	99.6%	16,389	53.6%	100.0%	53.6%
Cass County	20,718	98.9%	100.0%	98.9%	17,237	65.7%	100.0%	65.7%
Clark County	91,321	100.0%	100.0%	100.0%	26,037	83.6%	100.0%	83.6%
Clay County	10,080	98.8%	100.0%	98.8%	16,090	63.0%	100.0%	63.0%
Clinton County	15,969	100.0%	100.0%	100.0%	16,281	83.8%	100.0%	83.8%
Crawford County					10,558	0.1%	99.6%	0.1%
Daviess County	12,892	100.0%	100.0%	100.0%	20,255	95.5%	100.0%	95.5%
DeKalb County	24,790	99.7%	100.0%	99.7%	18,430	95.5%	100.0%	95.5%
Dearborn County	23,053	99.2%	100.0%	99.2%	26,515	89.6%	100.0%	89.6%
Decatur County	12,137	99.1%	100.0%	99.1%	14,657	42.5%	100.0%	42.5%
Delaware County	87,879	100.0%	100.0%	100.0%	26,893	100.0%	100.0%	100.0%
Dubois County	21,353	99.9%	100.0%	99.9%	21,212	41.7%	100.0%	41.7%
Elkhart County	162,790	97.1%	100.0%	97.1%	42,768	99.0%	100.0%	99.0%
Fayette County	14,361	100.0%	100.0%	100.0%	8,686	100.0%	100.0%	100.0%
Floyd County	61,803	100.0%	100.0%	100.0%	15,969	95.6%	100.0%	95.6%
Fountain County	5,314	99.2%	100.0%	99.2%	11,037	71.8%	100.0%	71.8%
Franklin County	2,482	100.0%	100.0%	100.0%	20,253	54.9%	100.0%	54.9%
Fulton County	6,615	100.0%	100.0%	100.0%	13,476	100.0%	100.0%	100.0%
Gibson County	15,440	99.9%	100.0%	99.9%	18,012	46.8%	100.0%	46.8%
Grant County	45,867	96.6%	100.0%	96.6%	20,069	83.7%	100.0%	83.7%
Greene County	8,157	99.5%	100.0%	99.5%	23,849	73.4%	100.0%	73.4%
Hamilton County	305,155	99.9%	100.0%	99.9%	24,879	99.3%	100.0%	99.3%
Hancock County	52,510	99.7%	100.0%	99.7%	23,809	99.2%	100.0%	99.2%
Harrison County	5,664	100.0%	100.0%	100.0%	34,682	95.0%	100.0%	95.0%
Hendricks County	134,617	100.0%	100.0%	100.0%	32,364	90.0%	100.0%	90.0%
Henry County	27,122	99.8%	100.0%	99.8%	21,149	96.0%	100.0%	96.0%
Howard County	64,534	98.8%	100.0%	98.8%	17,832	85.6%	100.0%	85.6%
Huntington County	17,603	100.0%	100.0%	100.0%	18,637	81.7%	100.0%	81.7%
Jackson County	24,435	99.9%	100.0%	99.9%	19,674	87.5%	100.0%	87.5%
Jasper County	10,640	100.0%	100.0%	100.0%	22,730	76.2%	100.0%	76.2%
Jay County	8,928	100.0%	100.0%	100.0%	11,836	87.3%	100.0%	87.3%
Jefferson County	17,374	99.9%	100.0%	99.9%	14,832	55.1%	100.0%	55.1%
Jennings County	10,582	99.5%	100.0%	99.5%	17,029	62.4%	100.0%	62.4%
Johnson County	130,076	99.3%	100.0%	99.3%	26,140	87.2%	100.0%	87.2%
Knox County	22,957	99.9%	100.0%	99.9%	13,938	63.1%	100.0%	63.1%
Kosciusko County	42,104	99.2%	100.0%	99.2%	37,239	95.8%	100.0%	95.8%

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LaGrange County	3,274	93.4%	100.0%	93.4%	36,056	52.2%	100.0%	52.2%
LaPorte County	70,060	99.6%	100.0%	99.6%	39,947	99.7%	100.0%	99.7%
Lake County	464,256	99.8%	100.0%	99.8%	20,155	98.3%	100.0%	98.3%
Lawrence County	19,098	99.7%	100.0%	99.7%	26,570	65.4%	100.0%	65.4%
Madison County	99,022	100.0%	100.0%	100.0%	30,618	100.0%	100.0%	100.0%
Marion County	948,636	99.9%	100.0%	99.9%	6,011	100.0%	100.0%	100.0%
Marshall County	16,667	100.0%	100.0%	100.0%	29,581	99.3%	100.0%	99.3%
Martin County	2,670	100.0%	100.0%	100.0%	7,547	60.2%	100.0%	60.2%
Miami County	18,762	83.2%	100.0%	83.2%	16,805	67.1%	100.0%	67.1%
Monroe County	114,472	93.4%	100.0%	93.4%	32,445	97.1%	100.0%	97.1%
Montgomery County	17,772	98.8%	100.0%	98.8%	20,574	55.9%	100.0%	55.9%
Morgan County	35,566	99.1%	100.0%	99.1%	34,549	74.9%	100.0%	74.9%
Newton County					14,011	95.5%	100.0%	95.5%
Noble County	15,024	99.6%	100.0%	99.6%	32,507	63.4%	100.0%	63.4%
Ohio County					5,844	79.0%	99.8%	79.0%
Orange County	3,018	100.0%	100.0%	100.0%	16,471	73.1%	100.0%	73.1%
Owen County					20,845	78.8%	100.0%	78.8%
Parke County	4,086	99.0%	100.0%	99.0%	12,840	64.6%	100.0%	64.6%
Perry County	8,659	99.1%	100.0%	99.1%	10,443	67.9%	99.9%	67.8%
Pike County					12,408	57.9%	100.0%	57.9%
Porter County	134,118	100.0%	100.0%	100.0%	35,471	100.0%	100.0%	100.0%
Posey County	8,419	90.5%	100.0%	90.5%	17,121	58.3%	100.0%	58.3%
Pulaski County	2,194	99.5%	100.0%	99.5%	10,275	65.9%	100.0%	65.9%
Putnam County	13,097	99.8%	100.0%	99.8%	24,681	60.1%	100.0%	60.1%
Randolph County	9,007	100.0%	100.0%	100.0%	15,844	99.8%	100.0%	99.8%
Ripley County	4,558	99.1%	100.0%	99.1%	23,965	52.1%	100.0%	52.1%
Rush County	6,250	100.0%	100.0%	100.0%	10,413	98.0%	100.0%	98.0%
Scott County	11,080	100.0%	100.0%	100.0%	12,798	100.0%	100.0%	100.0%
Shelby County	21,137	97.6%	100.0%	97.6%	23,452	67.4%	100.0%	67.4%
Spencer County					20,327	49.4%	100.0%	49.4%
St. Joseph County	246,200	99.4%	100.0%	99.4%	24,564	99.8%	100.0%	99.8%
Starke County	3,949	99.2%	100.0%	99.2%	18,986	93.7%	100.0%	93.7%
Steuben County	11,283	98.4%	100.0%	98.4%	23,303	78.0%	100.0%	78.0%
Sullivan County	4,271	100.0%	100.0%	100.0%	16,419	45.8%	100.0%	45.8%
Switzerland County					10,717	36.6%	100.0%	36.6%
Tippecanoe County	161,224	99.8%	100.0%	99.8%	31,808	80.2%	100.0%	80.2%
Tipton County	5,449	100.0%	100.0%	100.0%	9,679	100.0%	100.0%	100.0%

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Union County					7,037	99.7%	100.0%	99.7%
Vanderburgh County	164,152	100.0%	100.0%	100.0%	16,822	86.1%	100.0%	86.1%
Vermillion County	6,050	98.9%	100.0%	98.9%	9,429	93.7%	100.0%	93.7%
Vigo County	81,219	100.0%	100.0%	100.0%	26,167	76.2%	100.0%	76.2%
Wabash County	14,896	100.0%	100.0%	100.0%	16,384	91.7%	100.0%	91.7%
Warren County	1,729	93.5%	100.0%	93.5%	6,534	49.9%	100.0%	49.9%
Warrick County	43,546	99.9%	100.0%	99.9%	19,021	42.2%	100.0%	42.2%
Washington County	6,324	100.0%	100.0%	100.0%	21,619	99.8%	100.0%	99.8%
Wayne County	43,159	100.0%	100.0%	100.0%	22,777	100.0%	100.0%	100.0%
Wells County	13,877	100.0%	100.0%	100.0%	14,321	76.9%	100.0%	76.9%
White County	7,532	97.8%	100.0%	97.8%	16,601	87.6%	100.0%	87.6%
Whitley County	9,717	98.8%	100.0%	98.8%	24,347	69.7%	100.0%	69.7%
Iowa								
Adair County					7,063	84.9%	100.0%	84.9%
Adams County					3,645	60.6%	100.0%	60.6%
Allamakee County	3,449	100.0%	100.0%	100.0%	10,383	74.2%	93.9%	70.1%
Appanoose County	4,947	100.0%	100.0%	100.0%	7,490	92.1%	98.3%	91.7%
Audubon County					5,506	75.4%	100.0%	75.4%
Benton County	4,796	98.0%	100.0%	98.0%	20,846	77.6%	100.0%	77.6%
Black Hawk County	113,972	99.9%	100.0%	99.9%	18,436	97.5%	100.0%	97.5%
Boone County	12,905	99.0%	100.0%	99.0%	13,441	96.3%	100.0%	96.3%
Bremer County	8,740	99.8%	100.0%	99.8%	16,207	95.6%	100.0%	95.6%
Buchanan County	6,560	99.4%	100.0%	99.4%	14,639	74.2%	100.0%	74.2%
Buena Vista County	10,788	100.0%	100.0%	100.0%	9,086	98.5%	100.0%	98.5%
Butler County					14,539	94.0%	100.0%	94.0%
Calhoun County					9,699	78.5%	100.0%	78.5%
Carroll County	9,515	100.0%	100.0%	100.0%	10,639	73.7%	100.0%	73.7%
Cass County	5,780	98.8%	100.0%	98.8%	7,150	89.5%	100.0%	89.5%
Cedar County	3,067	97.7%	100.0%	97.7%	15,557	91.0%	100.0%	91.0%
Cerro Gordo County	33,632	100.0%	100.0%	100.0%	9,015	95.2%	100.0%	95.2%
Cherokee County	4,197	100.0%	100.0%	100.0%	7,124	89.6%	100.0%	89.6%
Chickasaw County	2,981	100.0%	100.0%	100.0%	8,983	85.9%	100.0%	85.9%
Clarke County	4,749	95.8%	100.0%	95.8%	4,671	69.2%	100.0%	69.2%
Clay County	10,435	100.0%	100.0%	100.0%	5,699	92.8%	100.0%	92.8%
Clayton County	592	100.0%	100.0%	100.0%	16,964	74.5%	96.5%	72.8%
Clinton County	31,363	98.9%	100.0%	98.9%	15,155	88.7%	100.0%	88.7%
Crawford County	7,911	96.0%	100.0%	96.0%	9,246	42.8%	100.0%	42.8%

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Dallas County	55,433	97.6%	100.0%	97.6%	34,714	96.2%	100.0%	96.2%
Davis County					9,016	81.0%	97.2%	79.2%
Decatur County					7,890	85.5%	100.0%	85.5%
Delaware County	4,682	98.4%	100.0%	98.4%	12,387	92.9%	99.7%	92.8%
Des Moines County	28,222	98.1%	100.0%	98.1%	10,916	87.4%	100.0%	87.4%
Dickinson County	10,973	99.8%	100.0%	99.8%	6,180	95.8%	100.0%	95.8%
Dubuque County	69,938	98.9%	100.0%	98.9%	26,916	97.6%	100.0%	97.6%
Emmet County	5,235	100.0%	100.0%	100.0%	4,018	83.8%	100.0%	83.8%
Fayette County	5,722	98.5%	100.0%	98.5%	13,938	75.6%	99.3%	75.3%
Floyd County	7,265	99.9%	100.0%	99.9%	8,496	96.2%	100.0%	96.2%
Franklin County	3,876	100.0%	100.0%	100.0%	6,248	91.3%	100.0%	91.3%
Fremont County	2	50.0%	100.0%	50.0%	6,990	73.5%	100.0%	73.5%
Greene County	3,613	100.0%	100.0%	100.0%	5,368	94.4%	100.0%	94.4%
Grundy County					12,304	98.3%	100.0%	98.3%
Guthrie County					10,719	90.6%	100.0%	90.6%
Hamilton County	7,125	97.4%	100.0%	97.4%	7,827	94.5%	100.0%	94.5%
Hancock County	3,014	100.0%	100.0%	100.0%	7,698	85.7%	100.0%	85.7%
Hardin County	4,628	99.8%	100.0%	99.8%	12,240	91.8%	100.0%	91.8%
Harrison County	2,578	85.7%	100.0%	85.7%	11,556	73.2%	100.0%	73.2%
Henry County	8,216	99.7%	100.0%	99.7%	11,848	87.5%	99.7%	87.3%
Howard County	3,352	99.6%	100.0%	99.6%	5,835	64.7%	99.8%	64.7%
Humboldt County	5,002	97.6%	100.0%	97.6%	4,545	57.6%	100.0%	57.6%
Ida County					6,841	94.6%	100.0%	94.6%
Iowa County	2,696	98.8%	100.0%	98.8%	13,444	77.2%	100.0%	77.2%
Jackson County	8,880	99.0%	100.0%	99.0%	10,552	86.6%	100.0%	86.6%
Jasper County	15,510	97.4%	100.0%	97.4%	21,633	82.1%	100.0%	82.1%
Jefferson County	10,752	100.0%	100.0%	100.0%	7,629	99.9%	100.0%	99.9%
Johnson County	117,266	98.3%	100.0%	98.3%	33,970	81.6%	100.0%	81.6%
Jones County	8,524	99.1%	100.0%	99.1%	12,214	88.8%	99.9%	88.7%
Keokuk County					10,221	74.8%	99.9%	74.8%
Kossuth County	5,033	99.6%	100.0%	99.6%	9,875	68.7%	100.0%	68.7%
Lee County	19,946	98.9%	100.0%	98.9%	14,109	88.0%	99.4%	87.4%
Linn County	193,823	98.9%	100.0%	98.9%	32,073	88.7%	100.0%	88.7%
Louisa County					11,169	85.9%	100.0%	85.9%
Lucas County	3,670	100.0%	100.0%	100.0%	4,971	54.4%	98.0%	53.2%
Lyon County					11,811	94.5%	100.0%	94.5%
Madison County	4,966	100.0%	100.0%	100.0%	11,281	97.0%	100.0%	97.0%

County or County Equivalent	Urban Areas				Rural Areas			
	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile
Mahaska County	12,055	98.7%	100.0%	98.7%	9,945	60.7%	100.0%	60.7%
Marion County	16,898	99.5%	100.0%	99.5%	16,506	77.1%	99.5%	77.0%
Marshall County	25,932	97.3%	100.0%	97.3%	14,049	81.6%	100.0%	81.6%
Mills County	5,941	99.8%	100.0%	99.8%	9,122	98.7%	100.0%	98.7%
Mitchell County	3,336	100.0%	100.0%	100.0%	7,233	87.3%	100.0%	87.3%
Monona County	2,401	99.5%	100.0%	99.5%	6,278	71.4%	100.0%	71.4%
Monroe County	3,405	100.0%	100.0%	100.0%	4,385	85.9%	98.4%	84.8%
Montgomery County	4,981	98.3%	100.0%	98.3%	5,022	82.2%	100.0%	82.2%
Muscatine County	31,835	100.0%	100.0%	100.0%	11,094	81.4%	100.0%	81.4%
O'Brien County	4,304	100.0%	100.0%	100.0%	9,536	100.0%	100.0%	100.0%
Osceola County	2,380	100.0%	100.0%	100.0%	3,660	93.9%	100.0%	93.9%
Page County	9,937	97.7%	100.0%	97.7%	5,311	71.8%	100.0%	71.8%
Palo Alto County	3,210	99.1%	100.0%	99.1%	5,719	82.5%	100.0%	82.5%
Plymouth County	9,187	100.0%	100.0%	100.0%	15,908	92.9%	100.0%	92.9%
Pocahontas County					6,740	81.6%	100.0%	81.6%
Polk County	457,613	97.6%	100.0%	97.6%	29,573	88.5%	100.0%	88.5%
Pottawattamie County	68,411	97.8%	100.0%	97.8%	25,118	69.8%	100.0%	69.8%
Poweshiek County	8,551	99.4%	100.0%	99.4%	10,141	50.7%	100.0%	50.7%
Ringgold County					4,968	58.3%	100.0%	58.3%
Sac County					9,719	69.9%	100.0%	69.9%
Scott County	148,613	97.5%	100.0%	97.5%	24,668	91.0%	100.0%	91.0%
Shelby County	4,402	98.4%	100.0%	98.4%	7,176	92.0%	100.0%	92.0%
Sioux County	16,816	100.0%	100.0%	100.0%	18,093	92.7%	100.0%	92.7%
Story County	78,201	97.6%	100.0%	97.6%	19,894	76.5%	100.0%	76.5%
Tama County	4,591	96.5%	100.0%	96.5%	12,313	75.6%	100.0%	75.6%
Taylor County					6,191	67.9%	100.0%	67.9%
Union County	7,421	99.6%	100.0%	99.6%	4,938	71.6%	100.0%	71.6%
Van Buren County					7,020	73.9%	99.2%	73.3%
Wapello County	24,240	97.1%	100.0%	97.1%	10,964	70.2%	98.9%	69.9%
Warren County	28,295	99.4%	100.0%	99.4%	22,750	85.3%	99.9%	85.2%
Washington County	6,685	99.9%	100.0%	99.9%	15,456	86.6%	100.0%	86.6%
Wayne County					6,401	86.1%	100.0%	86.1%
Webster County	23,533	95.7%	100.0%	95.7%	12,744	94.4%	100.0%	94.4%
Winnebago County	3,334	100.0%	100.0%	100.0%	7,184	99.9%	100.0%	99.9%
Winneshiek County	7,669	84.0%	100.0%	84.0%	12,360	51.7%	98.3%	51.6%
Woodbury County	84,326	99.3%	100.0%	99.3%	18,212	84.1%	100.0%	84.1%
Worth County					7,453	96.6%	100.0%	96.6%

County or County Equivalent	Urban Areas				Rural Areas			
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Wright County	5,497	98.5%	100.0%	98.5%	7,193	82.5%	100.0%	82.5%
Kansas								
Allen County	4,966	100.0%	100.0%	100.0%	7,478	100.0%	100.0%	100.0%
Anderson County	2,909	100.0%	100.0%	100.0%	4,969	100.0%	100.0%	100.0%
Atchison County	10,429	98.0%	100.0%	98.0%	5,764	56.2%	100.0%	56.2%
Barber County					4,472	85.5%	100.0%	85.5%
Barton County	17,810	99.0%	100.0%	99.0%	8,301	76.2%	100.0%	76.2%
Bourbon County	7,444	100.0%	100.0%	100.0%	7,209	100.0%	99.9%	99.9%
Brown County	2,890	100.0%	100.0%	100.0%	6,708	64.5%	100.0%	64.5%
Butler County	38,960	98.4%	100.0%	98.4%	27,805	42.7%	100.0%	42.7%
Chase County					2,629	13.1%	100.0%	13.1%
Chautauqua County					3,309	18.9%	99.8%	18.9%
Cherokee County	10,010	95.9%	100.0%	95.9%	10,005	83.9%	100.0%	83.9%
Cheyenne County					2,660	49.9%	100.0%	49.9%
Clark County					2,005	43.5%	100.0%	43.5%
Clay County	4,030	100.0%	100.0%	100.0%	3,965	84.0%	100.0%	84.0%
Cloud County	4,611	99.8%	100.0%	99.8%	4,118	85.2%	100.0%	85.2%
Coffey County	2,382	100.0%	100.0%	100.0%	5,851	99.0%	100.0%	99.0%
Comanche County					1,748	57.4%	100.0%	57.4%
Cowley County	23,845	97.2%	100.0%	97.2%	11,373	58.2%	99.9%	58.2%
Crawford County	25,278	100.0%	100.0%	100.0%	13,741	100.0%	100.0%	100.0%
Decatur County					2,871	17.0%	100.0%	17.0%
Dickinson County	6,386	68.5%	100.0%	68.5%	12,331	79.5%	100.0%	79.5%
Doniphan County	2,189	100.0%	100.0%	100.0%	5,493	80.6%	100.0%	80.6%
Douglas County	104,366	100.0%	100.0%	100.0%	17,066	100.0%	100.0%	100.0%
Edwards County					2,849	70.3%	100.0%	70.3%
Elk County					2,508	74.8%	100.0%	74.8%
Ellis County	20,988	100.0%	100.0%	100.0%	7,722	97.7%	100.0%	97.7%
Ellsworth County	2,691	61.8%	100.0%	61.8%	3,505	68.6%	100.0%	68.6%
Finney County	29,419	100.0%	100.0%	100.0%	7,192	96.3%	100.0%	96.3%
Ford County	26,370	93.1%	100.0%	93.1%	7,518	43.4%	100.0%	43.4%
Franklin County	11,832	100.0%	100.0%	100.0%	13,799	100.0%	100.0%	100.0%
Geary County	27,238	86.9%	100.0%	86.9%	5,356	69.6%	100.0%	69.6%
Gove County					2,612	71.6%	100.0%	71.6%
Graham County					2,492	98.6%	100.0%	98.6%
Grant County	5,696	100.0%	100.0%	100.0%	1,640	100.0%	100.0%	100.0%
Gray County					6,031	59.2%	100.0%	59.2%

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Greeley County					1,227	91.9%	100.0%	91.9%
Greenwood County	2,218	100.0%	100.0%	100.0%	3,837	59.2%	100.0%	59.2%
Hamilton County					2,607	100.0%	100.0%	100.0%
Harper County					5,506	59.6%	100.0%	59.6%
Harvey County	23,178	97.8%	100.0%	97.8%	11,032	57.8%	100.0%	57.8%
Haskell County					3,997	98.4%	100.0%	98.4%
Hodgeman County					1,818	40.8%	100.0%	40.8%
Jackson County	3,153	100.0%	100.0%	100.0%	10,127	90.6%	100.0%	90.6%
Jefferson County	227	100.0%	100.0%	100.0%	18,748	97.3%	100.0%	97.3%
Jewell County					2,841	89.5%	100.0%	89.5%
Johnson County	569,194	100.0%	100.0%	100.0%	28,322	99.8%	100.0%	99.8%
Kearny County					3,943	100.0%	100.0%	100.0%
Kingman County	2,632	98.4%	100.0%	98.4%	4,678	32.9%	100.0%	32.9%
Kiowa County					2,514	76.5%	100.0%	76.5%
Labette County	9,009	98.8%	100.0%	98.8%	10,955	41.4%	100.0%	41.4%
Lane County					1,560	98.0%	100.0%	98.0%
Leavenworth County	56,176	100.0%	100.0%	100.0%	25,175	85.6%	100.0%	85.6%
Lincoln County					3,023	68.1%	100.0%	68.1%
Linn County					9,750	100.0%	100.0%	100.0%
Logan County					2,844	89.4%	100.0%	89.4%
Lyon County	24,324	100.0%	100.0%	100.0%	9,082	96.3%	100.0%	96.3%
Marion County	2,344	98.9%	100.0%	98.9%	9,606	85.5%	100.0%	85.5%
Marshall County	2,700	99.8%	100.0%	99.8%	7,022	64.0%	100.0%	64.0%
McPherson County	15,398	98.7%	100.0%	98.7%	13,139	56.2%	100.0%	56.2%
Meade County					4,146	0.1%	100.0%	0.1%
Miami County	16,077	100.0%	100.0%	100.0%	17,599	100.0%	100.0%	100.0%
Mitchell County	3,212	100.0%	100.0%	100.0%	2,936	92.4%	100.0%	92.4%
Montgomery County	17,647	99.6%	100.0%	99.6%	14,473	79.9%	100.0%	79.9%
Morris County					5,520	97.5%	100.0%	97.5%
Morton County					2,667	100.0%	100.0%	100.0%
Nemaha County	2,411	99.3%	100.0%	99.3%	7,742	53.3%	100.0%	53.3%
Neosho County	8,594	100.0%	100.0%	100.0%	7,357	94.8%	100.0%	94.8%
Ness County					2,840	82.3%	100.0%	82.3%
Norton County	2,721	100.0%	100.0%	100.0%	2,709	48.9%	100.0%	48.9%
Osage County	2,410	100.0%	100.0%	100.0%	13,527	100.0%	100.0%	100.0%
Osborne County					3,475	98.0%	100.0%	98.0%
Ottawa County					5,802	53.6%	100.0%	53.6%

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Pawnee County	4,426	88.0%	100.0%	88.0%	2,136	40.7%	100.0%	40.7%
Phillips County	2,375	100.0%	100.0%	100.0%	2,942	55.5%	100.0%	55.5%
Pottawatomie County	9,259	96.7%	100.0%	96.7%	15,015	95.2%	100.0%	95.2%
Pratt County	6,311	96.7%	100.0%	96.7%	3,067	44.8%	100.0%	44.8%
Rawlins County					2,508	46.4%	100.0%	46.4%
Reno County	41,666	99.2%	100.0%	99.2%	20,676	59.0%	100.0%	59.0%
Republic County					4,664	68.9%	100.0%	68.9%
Rice County	3,283	98.5%	100.0%	98.5%	6,248	68.0%	100.0%	68.0%
Riley County	60,245	89.0%	100.0%	89.0%	13,458	80.2%	100.0%	80.2%
Rooks County					5,013	87.0%	100.0%	87.0%
Rush County					3,093	79.9%	100.0%	79.9%
Russell County	4,018	100.0%	100.0%	100.0%	2,889	98.5%	100.0%	98.5%
Saline County	46,249	98.4%	100.0%	98.4%	8,152	25.4%	100.0%	25.4%
Scott County	3,495	100.0%	100.0%	100.0%	1,402	99.9%	100.0%	99.9%
Sedgwick County	471,845	97.7%	100.0%	97.7%	41,762	61.5%	100.0%	61.5%
Seward County	19,216	62.9%	100.0%	62.9%	2,564	31.0%	100.0%	31.0%
Shawnee County	149,077	100.0%	100.0%	100.0%	28,422	100.0%	100.0%	100.0%
Sheridan County					2,533	76.6%	100.0%	76.6%
Sherman County	4,400	100.0%	100.0%	100.0%	1,499	42.5%	100.0%	42.5%
Smith County					3,603	87.4%	100.0%	87.4%
Stafford County					4,178	19.1%	100.0%	19.1%
Stanton County					1,987	100.0%	100.0%	100.0%
Stevens County	3,731	100.0%	100.0%	100.0%	1,828	96.2%	100.0%	96.2%
Sumner County	8,403	11.1%	100.0%	11.1%	14,593	63.7%	100.0%	63.7%
Thomas County	5,226	100.0%	100.0%	100.0%	2,485	69.3%	100.0%	69.3%
Trego County					2,793	83.6%	100.0%	83.6%
Wabaunsee County					6,899	73.5%	100.0%	73.5%
Wallace County					1,503	47.4%	100.0%	47.4%
Washington County					5,420	65.2%	100.0%	65.2%
Wichita County					2,105	95.2%	100.0%	95.2%
Wilson County	2,268	100.0%	100.0%	100.0%	6,397	100.0%	100.0%	100.0%
Woodson County					3,183	91.4%	100.0%	91.4%
Wyandotte County	154,699	99.8%	100.0%	99.8%	10,624	97.4%	100.0%	97.4%
Kentucky								
Adair County	4,555	99.9%	100.0%	99.9%	14,660	70.2%	97.8%	68.9%
Allen County	4,448	100.0%	100.0%	100.0%	16,674	98.6%	98.6%	97.2%
Anderson County	12,909	100.0%	100.0%	100.0%	9,751	100.0%	100.0%	100.0%

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Ballard County					7,979	80.7%	100.0%	80.7%
Barren County	15,919	89.5%	100.0%	89.5%	28,257	80.9%	99.5%	80.5%
Bath County					12,383	85.1%	100.0%	85.1%
Bell County	10,585	100.0%	100.0%	100.0%	15,984	97.5%	99.5%	97.3%
Boone County	112,102	99.6%	100.0%	99.6%	19,427	97.3%	100.0%	97.3%
Bourbon County	11,072	100.0%	100.0%	100.0%	9,110	94.6%	100.0%	94.6%
Boyd County	35,047	99.3%	100.0%	99.3%	12,193	87.6%	96.9%	85.4%
Boyle County	19,304	100.0%	100.0%	100.0%	10,795	96.8%	99.6%	96.8%
Bracken County					8,239	86.4%	100.0%	86.4%
Breathitt County	2,390	58.6%	100.0%	58.6%	10,336	66.8%	78.3%	59.4%
Breckinridge County					20,388	78.9%	100.0%	78.9%
Bullitt County	55,556	100.0%	100.0%	100.0%	25,513	98.2%	100.0%	98.2%
Butler County					12,772	54.2%	99.9%	54.2%
Caldwell County	5,651	99.5%	100.0%	99.5%	7,064	57.6%	100.0%	57.6%
Calloway County	19,522	100.0%	100.0%	100.0%	19,611	96.7%	100.0%	96.7%
Campbell County	78,472	100.0%	100.0%	100.0%	14,680	96.3%	100.0%	96.3%
Carlisle County					4,771	94.2%	100.0%	94.2%
Carroll County	5,040	100.0%	100.0%	100.0%	5,697	52.3%	100.0%	52.3%
Carter County	5,657	68.5%	100.0%	68.5%	21,347	83.1%	94.1%	78.9%
Casey County					15,887	92.9%	96.3%	89.6%
Christian County	49,061	97.3%	100.0%	97.3%	22,608	69.2%	99.4%	69.2%
Clark County	26,018	99.9%	100.0%	99.9%	10,231	41.6%	100.0%	41.6%
Clay County	4,415	96.3%	100.0%	96.3%	15,690	95.4%	94.4%	90.4%
Clinton County					10,206	93.0%	100.0%	93.0%
Crittenden County	2,593	99.3%	100.0%	99.3%	6,322	54.2%	100.0%	54.2%
Cumberland County					6,659	70.6%	98.5%	70.6%
Daviess County	73,078	100.0%	100.0%	100.0%	28,023	75.7%	100.0%	75.7%
Edmonson County					12,274	92.0%	97.2%	89.2%
Elliott County					7,508	100.0%	48.4%	48.4%
Estill County	3,431	98.6%	100.0%	98.6%	10,767	96.4%	99.4%	95.9%
Fayette County	311,801	100.0%	100.0%	100.0%	11,975	88.1%	100.0%	88.1%
Fleming County	2,797	98.2%	100.0%	98.2%	11,635	79.4%	100.0%	79.4%
Floyd County	6,315	98.3%	100.0%	98.3%	29,530	95.4%	95.4%	90.9%
Franklin County	36,626	100.0%	100.0%	100.0%	14,189	100.0%	100.0%	100.0%
Fulton County	2,306	97.1%	100.0%	97.1%	3,814	39.8%	100.0%	39.8%
Gallatin County					8,832	79.6%	100.0%	79.6%
Garrard County	3,781	98.9%	100.0%	98.9%	13,779	87.7%	100.0%	87.7%

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Grant County	8,664	99.9%	100.0%	99.9%	16,455	91.2%	100.0%	91.2%
Graves County	11,109	99.6%	100.0%	99.6%	26,208	93.4%	100.0%	93.4%
Grayson County	6,889	99.1%	100.0%	99.1%	19,432	87.9%	100.0%	87.9%
Green County					11,049	86.4%	99.2%	85.8%
Greenup County	21,353	99.7%	100.0%	99.7%	13,915	84.8%	96.5%	82.9%
Hancock County	935	0.0%	100.0%	0.0%	7,823	23.7%	100.0%	23.7%
Hardin County	71,014	100.0%	100.0%	100.0%	39,342	100.0%	100.0%	100.0%
Harlan County	12,769	98.2%	98.2%	97.0%	13,640	79.8%	80.5%	64.8%
Harrison County	6,355	100.0%	100.0%	100.0%	12,423	100.0%	100.0%	100.0%
Hart County	2,420	99.5%	100.0%	99.5%	16,484	90.4%	100.0%	90.4%
Henderson County	27,931	99.9%	100.0%	99.9%	17,660	86.2%	100.0%	86.2%
Henry County					16,106	91.4%	100.0%	91.4%
Hickman County					4,421	35.2%	100.0%	35.2%
Hopkins County	23,052	99.6%	100.0%	99.6%	22,016	72.3%	100.0%	72.3%
Jackson County					13,442	100.0%	95.6%	95.6%
Jefferson County	758,952	100.0%	100.0%	100.0%	11,565	100.0%	100.0%	100.0%
Jessamine County	39,049	99.9%	100.0%	99.9%	14,866	93.0%	100.0%	93.0%
Johnson County	6,098	96.5%	100.0%	96.5%	16,288	82.8%	97.1%	79.9%
Kenton County	153,890	100.0%	100.0%	100.0%	12,160	93.3%	100.0%	93.3%
Knott County					15,126	96.5%	93.8%	91.8%
Knox County	11,495	86.5%	100.0%	86.5%	19,809	86.4%	99.9%	86.2%
Larue County	3,406	99.4%	100.0%	99.4%	10,899	81.8%	99.7%	81.5%
Laurel County	26,316	99.8%	100.0%	99.8%	34,350	97.4%	100.0%	97.4%
Lawrence County	3,581	100.0%	100.0%	100.0%	11,990	100.0%	79.1%	79.1%
Lee County					7,032	46.3%	99.1%	45.4%
Leslie County					10,143	59.3%	88.1%	51.3%
Letcher County					21,899	94.6%	98.6%	93.7%
Lewis County					13,257	76.6%	95.8%	73.8%
Lincoln County	4,533	100.0%	100.0%	100.0%	20,110	84.7%	100.0%	84.7%
Livingston County	421	100.0%	100.0%	100.0%	8,821	73.2%	100.0%	73.2%
Logan County	6,673	99.2%	100.0%	99.2%	20,316	60.3%	100.0%	60.3%
Lyon County					8,009	28.9%	100.0%	28.9%
Madison County	55,367	99.8%	100.0%	99.8%	37,001	89.2%	100.0%	89.2%
Magoffin County					12,362	100.0%	93.9%	93.9%
Marion County	5,411	100.0%	100.0%	100.0%	13,993	84.9%	97.5%	83.9%
Marshall County	4,400	100.0%	100.0%	100.0%	26,791	97.8%	100.0%	97.8%
Martin County					11,323	87.3%	99.2%	86.5%

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Mason County	7,630	96.3%	100.0%	96.3%	9,520	83.7%	100.0%	83.7%
McCracken County	46,943	98.6%	100.0%	98.6%	18,403	95.6%	100.0%	95.6%
McCreary County					17,408	100.0%	98.8%	98.8%
McLean County					9,252	49.4%	100.0%	49.4%
Meade County	4,075	100.0%	100.0%	100.0%	24,640	100.0%	99.6%	99.6%
Menifee County					6,451	100.0%	100.0%	100.0%
Mercer County	8,815	100.0%	100.0%	100.0%	12,956	80.6%	100.0%	80.6%
Metcalfe County					10,030	80.5%	98.1%	79.0%
Monroe County					10,718	87.6%	93.9%	83.9%
Montgomery County	11,256	99.0%	100.0%	99.0%	16,946	88.5%	100.0%	88.5%
Morgan County					13,345	100.0%	93.2%	93.2%
Muhlenberg County	9,724	97.5%	100.0%	97.5%	21,050	72.3%	100.0%	72.3%
Nelson County	19,403	79.4%	100.0%	79.4%	26,448	70.7%	100.0%	70.7%
Nicholas County					7,166	58.2%	100.0%	58.2%
Ohio County	6,330	100.0%	100.0%	100.0%	17,757	41.1%	100.0%	41.1%
Oldham County	52,263	100.0%	100.0%	100.0%	14,207	93.2%	100.0%	93.2%
Owen County					10,879	74.5%	100.0%	74.5%
Owsley County					4,472	100.0%	96.8%	96.8%
Pendleton County					14,529	78.0%	100.0%	78.0%
Perry County	7,106	87.3%	100.0%	87.3%	18,986	89.6%	85.6%	78.2%
Pike County	7,811	82.8%	100.0%	82.8%	50,591	82.3%	99.0%	81.7%
Powell County	4,143	68.5%	100.0%	68.5%	8,299	32.8%	100.0%	32.8%
Pulaski County	29,483	100.0%	100.0%	100.0%	35,140	95.4%	100.0%	95.4%
Robertson County					2,135	48.9%	100.0%	48.9%
Rockcastle County	2,779	99.5%	100.0%	99.5%	13,971	93.0%	100.0%	93.0%
Rowan County	7,267	100.0%	100.0%	100.0%	17,316	97.6%	97.7%	95.4%
Russell County					17,821	87.7%	100.0%	87.7%
Scott County	35,970	100.0%	100.0%	100.0%	20,057	97.3%	100.0%	97.3%
Shelby County	24,349	100.0%	100.0%	100.0%	24,169	100.0%	100.0%	100.0%
Simpson County	9,918	97.5%	100.0%	97.5%	8,610	29.9%	100.0%	29.9%
Spencer County					18,793	100.0%	100.0%	100.0%
Taylor County	12,150	99.3%	100.0%	99.3%	13,398	84.2%	98.9%	83.3%
Todd County					12,311	57.7%	99.9%	57.7%
Trigg County	2,977	93.3%	100.0%	93.3%	11,666	73.4%	99.8%	73.4%
Trimble County	463	98.7%	100.0%	98.7%	8,052	81.2%	100.0%	81.2%
Union County	4,752	99.6%	100.0%	99.6%	9,753	72.1%	100.0%	72.1%
Warren County	87,554	100.0%	100.0%	100.0%	43,710	79.2%	100.0%	79.2%

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Washington County					12,084	79.9%	100.0%	79.9%
Wayne County	6,753	99.8%	100.0%	99.8%	13,715	86.4%	93.1%	81.8%
Webster County					13,111	63.0%	100.0%	63.0%
Whitley County	12,595	100.0%	100.0%	100.0%	23,647	94.5%	99.9%	94.4%
Wolfe County					7,177	100.0%	100.0%	100.0%
Woodford County	16,654	99.9%	100.0%	99.9%	9,879	96.5%	100.0%	96.5%
Louisiana								
Acadia Parish	29,862	97.0%	100.0%	97.0%	32,328	47.9%	100.0%	47.9%
Allen Parish	7,854	0.0%	100.0%	0.0%	17,751	39.4%	100.0%	39.4%
Ascension Parish	105,715	99.7%	100.0%	99.7%	18,957	93.1%	100.0%	93.1%
Assumption Parish	12,347	100.0%	100.0%	100.0%	9,953	97.4%	100.0%	97.4%
Avoyelles Parish	14,131	7.3%	100.0%	7.3%	26,331	11.6%	100.0%	11.6%
Beauregard Parish	12,134	92.2%	100.0%	92.2%	25,118	29.4%	100.0%	29.4%
Bienville Parish	2,458	0.0%	100.0%	0.0%	10,850	3.8%	100.0%	3.8%
Bossier Parish	92,691	99.8%	100.0%	99.8%	34,494	66.2%	100.0%	66.2%
Caddo Parish	207,191	98.6%	100.0%	98.6%	35,731	81.0%	100.0%	81.0%
Calcasieu Parish	160,403	97.9%	100.0%	97.9%	42,709	70.5%	100.0%	70.5%
Caldwell Parish					9,960	52.3%	99.8%	52.3%
Cameron Parish					6,967	13.7%	99.5%	13.7%
Catahoula Parish					9,608	1.0%	100.0%	1.0%
Claiborne Parish	2,752	99.3%	100.0%	99.3%	13,192	26.4%	100.0%	26.4%
Concordia Parish	12,639	36.2%	100.0%	36.2%	6,933	3.4%	100.0%	3.4%
De Soto Parish	6,139	97.9%	100.0%	97.9%	21,297	63.2%	100.0%	63.2%
East Baton Rouge Parish	410,174	100.0%	100.0%	100.0%	30,782	100.0%	100.0%	100.0%
East Carroll Parish	4,606	85.2%	100.0%	85.2%	2,431	20.5%	100.0%	20.5%
East Feliciana Parish					19,305	17.8%	100.0%	17.8%
Evangeline Parish	13,128	24.8%	100.0%	24.8%	20,315	49.4%	100.0%	49.4%
Franklin Parish	5,134	93.8%	100.0%	93.8%	15,022	9.1%	100.0%	9.1%
Grant Parish	3,210	99.7%	100.0%	99.7%	19,272	27.7%	100.0%	27.7%
Iberia Parish	50,753	98.0%	100.0%	98.0%	20,188	90.2%	100.0%	90.2%
Iberville Parish	13,570	98.9%	100.0%	98.9%	19,151	75.4%	100.0%	75.4%
Jackson Parish	5,469	88.0%	100.0%	88.0%	10,433	44.5%	100.0%	44.5%
Jefferson Davis Parish	15,498	98.8%	100.0%	98.8%	16,083	54.0%	100.0%	54.0%
Jefferson Parish	428,827	98.1%	100.0%	98.1%	5,224	88.7%	98.2%	86.9%
LaSalle Parish	3,938	2.7%	100.0%	2.7%	10,979	1.4%	100.0%	1.4%
Lafayette Parish	221,451	97.9%	100.0%	97.9%	21,331	92.0%	100.0%	92.0%

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Lafourche Parish	74,102	89.0%	100.0%	89.0%	24,013	91.7%	100.0%	91.7%
Lincoln Parish	27,089	99.6%	100.0%	99.6%	20,107	59.1%	100.0%	59.1%
Livingston Parish	79,483	99.0%	100.0%	99.0%	60,084	97.9%	100.0%	97.9%
Madison Parish	8,274	87.8%	100.0%	87.8%	2,887	10.6%	100.0%	10.6%
Morehouse Parish	13,237	100.0%	100.0%	100.0%	12,161	82.0%	100.0%	82.0%
Natchitoches Parish	19,119	100.0%	100.0%	100.0%	19,540	40.7%	99.9%	40.7%
Orleans Parish	387,377	92.7%	100.0%	92.7%	3,629	65.9%	100.0%	65.9%
Ouachita Parish	116,446	97.9%	100.0%	97.9%	38,029	93.3%	99.9%	93.3%
Plaquemines Parish	18,619	79.6%	100.0%	79.6%	4,791	39.3%	100.0%	39.3%
Pointe Coupee Parish	9,308	99.4%	100.0%	99.4%	12,632	72.9%	100.0%	72.9%
Rapides Parish	79,635	99.4%	100.0%	99.4%	50,927	73.4%	100.0%	73.4%
Red River Parish					8,477	29.5%	100.0%	29.5%
Richland Parish	6,761	98.8%	100.0%	98.8%	13,431	25.3%	100.0%	25.3%
Sabine Parish	2,713	52.6%	100.0%	52.6%	21,319	0.3%	100.0%	0.3%
St. Bernard Parish	43,791	94.5%	100.0%	94.5%	2,930	79.3%	99.8%	79.3%
St. Charles Parish	46,677	98.8%	100.0%	98.8%	6,202	86.9%	100.0%	86.9%
St. Helena Parish					10,262	24.6%	100.0%	24.6%
St. James Parish	15,246	99.9%	100.0%	99.9%	5,791	98.6%	100.0%	98.6%
St. John the Baptist Parish	38,762	100.0%	100.0%	100.0%	4,422	99.7%	100.0%	99.7%
St. Landry Parish	42,856	99.0%	100.0%	99.0%	39,908	63.6%	100.0%	63.6%
St. Martin Parish	26,916	96.8%	100.0%	96.8%	26,705	90.6%	100.0%	90.6%
St. Mary Parish	43,808	95.5%	100.0%	95.5%	5,966	54.1%	100.0%	54.1%
St. Tammany Parish	192,173	99.9%	100.0%	99.9%	65,936	95.0%	100.0%	95.0%
Tangipahoa Parish	76,857	99.8%	100.0%	99.8%	56,918	73.5%	100.0%	73.5%
Tensas Parish					4,462	0.5%	100.0%	0.5%
Terrebonne Parish	87,822	99.8%	100.0%	99.8%	23,199	99.1%	100.0%	99.1%
Union Parish	3,593	88.4%	100.0%	88.4%	18,737	24.0%	100.0%	24.0%
Vermilion Parish	27,060	98.5%	100.0%	98.5%	32,770	94.2%	100.0%	94.2%
Vernon Parish	20,748	95.1%	100.0%	95.1%	28,112	51.7%	100.0%	51.7%
Washington Parish	15,717	66.7%	100.0%	66.7%	30,865	22.5%	100.0%	22.5%
Webster Parish	18,010	98.3%	100.0%	98.3%	20,788	58.4%	100.0%	58.4%
West Baton Rouge Parish	17,813	92.0%	100.0%	92.0%	8,614	81.5%	100.0%	81.5%
West Carroll Parish					10,982	27.6%	100.0%	27.6%
West Feliciana Parish					15,460	36.1%	100.0%	36.1%
Winn Parish	4,742	100.0%	100.0%	100.0%	9,392	19.0%	99.3%	19.0%
Maine								

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Androscoggin County	60,863	100.0%	100.0%	100.0%	46,816	99.6%	100.0%	99.6%
Aroostook County	13,125	100.0%	100.0%	100.0%	53,986	86.8%	89.0%	76.9%
Cumberland County	184,810	99.9%	99.8%	99.7%	108,747	99.2%	99.8%	99.0%
Franklin County	4,934	99.5%	100.0%	99.5%	24,963	89.0%	98.4%	87.8%
Hancock County	5,377	100.0%	100.0%	100.0%	49,434	89.0%	99.6%	88.7%
Kennebec County	44,652	99.1%	100.0%	99.1%	77,431	99.7%	100.0%	99.7%
Knox County	12,739	100.0%	100.0%	100.0%	27,032	96.8%	99.6%	96.4%
Lincoln County					34,342	96.2%	99.9%	96.0%
Oxford County	9,692	100.0%	100.0%	100.0%	47,926	86.5%	99.6%	86.3%
Penobscot County	62,875	97.9%	100.0%	97.9%	88,221	88.7%	99.1%	88.6%
Piscataquis County					16,800	78.2%	98.2%	77.1%
Sagadahoc County	13,116	99.5%	100.0%	99.5%	22,518	96.1%	100.0%	96.1%
Somerset County	9,851	99.9%	100.0%	99.9%	40,741	88.3%	96.4%	86.3%
Waldo County	3,417	100.0%	100.0%	100.0%	36,277	74.6%	100.0%	74.6%
Washington County	2,410	100.0%	100.0%	100.0%	29,080	86.7%	97.6%	84.5%
York County	79,589	99.3%	99.9%	99.2%	126,638	98.5%	99.8%	98.3%
Maryland								
Allegany County	51,816	94.8%	100.0%	94.8%	19,159	75.3%	100.0%	75.3%
Anne Arundel County	543,880	97.4%	99.9%	97.3%	32,151	98.3%	100.0%	98.3%
Baltimore County	769,889	98.3%	100.0%	98.3%	58,542	95.3%	100.0%	95.3%
Baltimore city	602,495	98.7%	100.0%	98.7%				
Calvert County	55,825	98.5%	100.0%	98.5%	36,178	96.8%	100.0%	96.8%
Caroline County	7,787	99.6%	100.0%	99.6%	25,516	89.0%	100.0%	89.0%
Carroll County	101,476	98.6%	100.0%	98.6%	66,953	95.3%	100.0%	95.3%
Cecil County	59,201	97.8%	100.0%	97.8%	43,625	95.3%	100.0%	95.3%
Charles County	108,324	97.8%	100.0%	97.8%	53,179	80.9%	100.0%	80.9%
Dorchester County	13,736	99.7%	99.3%	99.0%	18,262	71.9%	99.9%	71.9%
Frederick County	185,158	99.9%	100.0%	99.9%	70,490	99.2%	100.0%	99.2%
Garrett County	4,732	97.7%	100.0%	97.7%	24,431	75.5%	100.0%	75.5%
Harford County	206,714	99.3%	100.0%	99.3%	47,240	93.2%	100.0%	93.2%
Howard County	287,983	96.1%	100.0%	96.1%	35,213	98.6%	100.0%	98.6%
Kent County	4,831	100.0%	100.0%	100.0%	14,552	96.2%	100.0%	96.2%
Montgomery County	1,023,564	98.7%	100.0%	98.7%	29,003	99.3%	100.0%	99.3%
Prince George's County	886,233	97.1%	100.0%	97.1%	23,075	89.3%	100.0%	89.3%
Queen Anne's County	22,407	100.0%	97.8%	97.7%	27,840	97.3%	99.9%	97.2%
Somerset County	13,507	100.0%	99.9%	99.9%	12,168	96.9%	99.9%	96.8%

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St. Mary's County	54,752	96.2%	100.0%	96.2%	57,912	96.3%	99.7%	96.0%
Talbot County	16,469	98.3%	100.0%	98.3%	20,499	77.7%	99.6%	77.5%
Washington County	105,570	99.4%	100.0%	99.4%	45,356	96.8%	100.0%	96.8%
Wicomico County	75,492	100.0%	100.0%	100.0%	27,702	94.0%	100.0%	94.0%
Worcester County	33,247	100.0%	98.8%	98.8%	18,576	99.1%	99.8%	98.9%
Massachusetts								
Barnstable County	197,388	98.6%	100.0%	98.6%	16,025	98.7%	98.7%	97.4%
Berkshire County	86,146	99.9%	100.0%	99.9%	40,202	79.3%	100.0%	79.3%
Bristol County	507,915	98.3%	100.0%	98.3%	56,105	99.5%	100.0%	99.5%
Dukes County	10,257	90.6%	100.0%	90.6%	7,095	95.3%	100.0%	95.3%
Essex County	755,550	98.9%	100.0%	98.8%	35,083	98.9%	99.5%	98.4%
Franklin County	31,858	98.7%	100.0%	98.7%	39,105	71.3%	99.9%	71.2%
Hampden County	429,409	98.7%	100.0%	98.7%	40,995	90.1%	100.0%	90.1%
Hampshire County	116,303	87.4%	100.0%	87.4%	45,052	86.1%	100.0%	86.1%
Middlesex County	1,563,461	98.6%	100.0%	98.6%	51,245	99.4%	100.0%	99.4%
Nantucket County	8,856	99.5%	100.0%	99.5%	2,471	96.7%	100.0%	96.7%
Norfolk County	696,415	97.8%	99.9%	97.7%	8,965	98.8%	100.0%	98.8%
Plymouth County	463,048	98.0%	100.0%	97.9%	55,083	97.5%	100.0%	97.5%
Suffolk County	806,587	98.9%	99.9%	98.8%	642	0.8%	98.8%	0.0%
Worcester County	674,691	99.4%	100.0%	99.4%	156,146	94.8%	100.0%	94.8%
Michigan								
Alcona County	99	100.0%	100.0%	100.0%	10,263	66.3%	100.0%	66.3%
Alger County	2,834	99.8%	100.0%	99.8%	6,263	69.7%	96.6%	67.1%
Allegan County	41,037	100.0%	100.0%	100.0%	76,285	85.6%	100.0%	85.6%
Alpena County	13,771	100.0%	100.0%	100.0%	14,589	84.2%	100.0%	84.2%
Antrim County					23,365	99.7%	100.0%	99.7%
Arenac County					15,041	85.7%	99.6%	85.3%
Baraga County					8,320	62.5%	99.4%	62.5%
Barry County	13,862	100.0%	100.0%	100.0%	47,285	78.9%	100.0%	78.9%
Bay County	71,461	99.9%	100.0%	99.9%	32,462	82.1%	99.8%	81.9%
Benzie County					17,752	86.4%	100.0%	86.4%
Berrien County	102,724	97.7%	100.0%	97.7%	51,417	92.4%	100.0%	92.4%
Branch County	15,116	99.5%	100.0%	99.5%	28,502	55.6%	100.0%	55.6%
Calhoun County	92,020	97.7%	100.0%	97.7%	42,463	71.2%	100.0%	71.2%
Cass County	14,533	96.6%	100.0%	96.6%	37,119	98.4%	100.0%	98.4%
Charlevoix County	7,576	100.0%	100.0%	100.0%	18,664	90.0%	100.0%	90.0%
Cheboygan County	4,297	100.0%	100.0%	100.0%	21,116	55.0%	99.9%	55.0%

County or County Equivalent	Urban Areas				Rural Areas			
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Chippewa County	18,722	100.0%	100.0%	100.0%	18,795	50.3%	99.9%	50.3%
Clare County	8,650	100.0%	100.0%	100.0%	22,107	76.0%	100.0%	76.0%
Clinton County	36,814	99.4%	100.0%	99.4%	42,502	95.1%	100.0%	95.1%
Crawford County	3,653	100.0%	100.0%	100.0%	10,248	44.7%	100.0%	44.7%
Delta County	20,098	100.0%	100.0%	100.0%	15,759	63.8%	99.1%	63.8%
Dickinson County	17,232	83.5%	100.0%	83.5%	8,151	50.6%	99.5%	50.6%
Eaton County	67,837	99.5%	100.0%	99.5%	41,977	94.1%	100.0%	94.1%
Emmet County	8,222	99.9%	100.0%	99.9%	25,086	91.7%	99.9%	91.6%
Genesee County	335,909	99.3%	100.0%	99.3%	70,983	96.7%	100.0%	96.7%
Gladwin County	2,659	100.0%	100.0%	100.0%	22,678	69.2%	100.0%	69.2%
Gogebic County	5,103	99.9%	100.0%	99.9%	9,993	70.0%	99.8%	70.0%
Grand Traverse County	46,686	100.0%	100.0%	100.0%	45,883	94.5%	100.0%	94.5%
Gratiot County	15,200	100.0%	100.0%	100.0%	25,399	100.0%	100.0%	100.0%
Hillsdale County	13,573	99.8%	100.0%	99.8%	32,176	61.9%	100.0%	61.9%
Houghton County	22,487	99.2%	100.0%	99.2%	13,732	65.4%	99.9%	65.4%
Huron County	2,760	98.3%	100.0%	98.3%	28,406	83.8%	99.7%	83.5%
Ingham County	252,903	98.8%	100.0%	98.8%	39,822	94.8%	100.0%	94.8%
Ionia County	25,258	100.0%	100.0%	100.0%	38,952	99.7%	100.0%	99.7%
Iosco County	10,140	100.0%	98.3%	98.3%	14,941	89.6%	100.0%	89.6%
Iron County	3,197	0.0%	100.0%	0.0%	7,920	26.8%	99.4%	26.8%
Isabella County	36,683	100.0%	100.0%	100.0%	33,879	99.2%	100.0%	99.2%
Jackson County	91,698	95.1%	100.0%	95.1%	67,123	80.6%	100.0%	80.6%
Kalamazoo County	217,056	99.4%	100.0%	99.4%	47,806	95.0%	100.0%	95.0%
Kalkaska County	2,642	100.0%	100.0%	100.0%	15,176	80.8%	100.0%	80.8%
Kent County	545,359	100.0%	100.0%	100.0%	108,403	100.0%	100.0%	100.0%
Keweenaw County					2,113	74.9%	87.7%	67.6%
Lake County					11,881	27.7%	100.0%	27.7%
Lapeer County	19,864	100.0%	100.0%	100.0%	68,164	71.3%	100.0%	71.3%
Leelanau County	1,871	100.0%	97.6%	97.6%	19,892	92.9%	100.0%	92.9%
Lenawee County	46,649	97.5%	100.0%	97.5%	51,617	82.6%	100.0%	82.6%
Livingston County	119,863	99.5%	100.0%	99.5%	71,349	98.1%	100.0%	98.1%
Luce County	3,058	1.3%	100.0%	1.3%	3,225	1.8%	98.9%	1.8%
Mackinac County	2,368	100.0%	100.0%	100.0%	8,417	29.0%	100.0%	29.0%
Macomb County	849,292	99.1%	100.0%	99.1%	25,450	75.8%	100.0%	75.8%
Manistee County	9,388	100.0%	100.0%	100.0%	15,140	56.7%	99.6%	56.3%
Marquette County	38,122	99.9%	100.0%	99.9%	28,394	78.4%	99.8%	78.4%

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Mason County	10,798	100.0%	100.0%	100.0%	18,302	99.4%	100.0%	99.4%
Mecosta County	14,059	100.0%	100.0%	100.0%	29,484	99.8%	100.0%	99.8%
Menominee County	8,248	100.0%	100.0%	100.0%	14,735	44.4%	99.6%	44.4%
Midland County	47,350	99.9%	100.0%	99.9%	35,859	90.7%	100.0%	90.7%
Missaukee County					15,113	47.6%	100.0%	47.6%
Monroe County	93,193	99.1%	100.0%	99.1%	57,236	88.1%	100.0%	88.1%
Montcalm County	9,667	100.0%	100.0%	100.0%	54,296	99.9%	100.0%	99.9%
Montmorency County					9,264	14.3%	100.0%	14.3%
Muskegon County	132,508	99.6%	100.0%	99.6%	41,080	95.6%	100.0%	95.6%
Newaygo County	7,824	99.5%	100.0%	99.5%	41,032	81.8%	100.0%	81.8%
Oakland County	1,197,710	99.4%	100.0%	99.4%	61,442	98.9%	100.0%	98.9%
Oceana County	2,663	100.0%	100.0%	100.0%	23,962	71.7%	100.0%	71.7%
Ogemaw County					20,952	73.2%	100.0%	73.2%
Ontonagon County					5,795	65.3%	98.4%	64.6%
Osceola County					23,338	96.0%	100.0%	96.0%
Oscoda County					8,276	3.9%	100.0%	3.9%
Otsego County	8,370	100.0%	100.0%	100.0%	16,295	77.6%	100.0%	77.6%
Ottawa County	228,183	100.0%	100.0%	100.0%	62,271	100.0%	100.0%	100.0%
Presque Isle County	2,414	100.0%	100.0%	100.0%	10,324	21.2%	100.0%	21.2%
Roscommon County	8,099	100.0%	100.0%	100.0%	15,785	90.0%	100.0%	90.0%
Saginaw County	128,300	99.8%	100.0%	99.8%	62,500	87.1%	100.0%	87.1%
Sanilac County	3,651	35.1%	100.0%	35.1%	37,531	26.1%	100.0%	26.1%
Schoolcraft County	3,269	100.0%	100.0%	100.0%	4,799	28.0%	97.7%	28.0%
Shiawassee County	29,759	100.0%	100.0%	100.0%	38,433	89.7%	100.0%	89.7%
St. Clair County	96,464	98.6%	99.4%	98.1%	62,873	53.9%	100.0%	53.9%
St. Joseph County	27,607	98.4%	100.0%	98.4%	33,436	74.9%	100.0%	74.9%
Tuscola County	7,401	99.9%	100.0%	99.9%	45,115	63.7%	100.0%	63.7%
Van Buren County	21,726	98.5%	100.0%	98.5%	53,722	75.8%	100.0%	75.8%
Washtenaw County	306,408	96.9%	100.0%	96.9%	64,540	96.4%	100.0%	96.4%
Wayne County	1,741,471	99.2%	100.0%	99.2%	12,422	99.0%	100.0%	99.0%
Wexford County	11,823	99.8%	100.0%	99.8%	21,640	50.5%	100.0%	50.5%
Minnesota								
Aitkin County					15,902	75.7%	100.0%	75.7%
Anoka County	302,600	98.5%	100.0%	98.5%	51,203	96.4%	100.0%	96.4%
Becker County	8,095	100.0%	100.0%	100.0%	26,275	90.8%	100.0%	90.8%
Beltrami County	14,938	100.0%	100.0%	100.0%	31,904	98.8%	99.2%	98.1%
Benton County	23,604	100.0%	100.0%	100.0%	16,940	79.3%	100.0%	79.3%

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Big Stone County					4,989	91.2%	100.0%	91.2%
Blue Earth County	48,011	100.0%	100.0%	100.0%	19,406	91.6%	100.0%	91.6%
Brown County	16,039	98.9%	100.0%	98.9%	9,072	66.7%	100.0%	66.7%
Carlton County	15,751	96.7%	100.0%	96.7%	20,086	77.0%	100.0%	77.0%
Carver County	80,421	98.7%	100.0%	98.7%	23,115	96.8%	100.0%	96.8%
Cass County					29,517	86.0%	100.0%	86.0%
Chippewa County	5,752	100.0%	100.0%	100.0%	6,172	100.0%	100.0%	100.0%
Chisago County	24,404	99.3%	100.0%	99.3%	31,517	90.5%	100.0%	90.5%
Clay County	44,051	99.0%	100.0%	99.0%	19,900	80.2%	100.0%	80.2%
Clearwater County					8,810	100.0%	99.4%	99.4%
Cook County					5,393	91.3%	93.0%	85.3%
Cottonwood County	4,051	100.0%	100.0%	100.0%	7,226	100.0%	100.0%	100.0%
Crow Wing County	23,780	100.0%	100.0%	100.0%	41,106	93.8%	100.0%	93.8%
Dakota County	402,225	99.5%	100.0%	99.5%	23,194	81.7%	100.0%	81.7%
Dodge County	9,862	100.0%	100.0%	100.0%	10,959	100.0%	100.0%	100.0%
Douglas County	16,997	100.0%	100.0%	100.0%	20,961	98.3%	100.0%	98.3%
Faribault County	2,824	98.4%	100.0%	98.4%	10,934	79.2%	100.0%	79.2%
Fillmore County	1,395	100.0%	100.0%	100.0%	19,662	80.6%	99.3%	80.0%
Freeborn County	17,108	100.0%	100.0%	100.0%	13,336	99.9%	100.0%	99.9%
Goodhue County	24,261	96.8%	100.0%	96.8%	22,142	93.9%	100.0%	93.9%
Grant County					6,019	96.5%	100.0%	96.5%
Hennepin County	1,228,297	99.2%	100.0%	99.2%	31,119	91.9%	100.0%	91.9%
Houston County	7,831	100.0%	100.0%	100.0%	10,747	73.9%	98.0%	72.9%
Hubbard County	3,421	100.0%	100.0%	100.0%	17,907	97.0%	100.0%	97.0%
Isanti County	14,619	97.5%	100.0%	97.5%	25,345	66.2%	100.0%	66.2%
Itasca County	9,231	100.0%	100.0%	100.0%	35,877	89.6%	100.0%	89.6%
Jackson County	2,794	100.0%	100.0%	100.0%	7,117	100.0%	100.0%	100.0%
Kanabec County	3,340	96.0%	100.0%	96.0%	12,865	66.3%	100.0%	66.3%
Kandiyohi County	23,507	100.0%	100.0%	100.0%	19,347	100.0%	100.0%	100.0%
Kittson County					4,248	51.4%	99.7%	51.4%
Koochiching County	6,554	99.5%	100.0%	99.5%	5,886	75.6%	100.0%	75.6%
Lac qui Parle County					6,658	99.4%	100.0%	99.4%
Lake County	3,527	100.0%	100.0%	100.0%	7,131	87.4%	99.4%	86.9%
Lake of the Woods County					3,758	60.7%	99.1%	60.5%
Le Sueur County	10,517	99.0%	100.0%	99.0%	17,966	97.9%	100.0%	97.9%
Lincoln County					5,673	99.5%	100.0%	99.5%

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Lyon County	12,956	100.0%	100.0%	100.0%	12,673	99.6%	100.0%	99.6%
Mahnomen County					5,519	92.0%	100.0%	92.0%
Marshall County					9,390	60.7%	100.0%	60.7%
Martin County	8,835	99.9%	100.0%	99.9%	10,950	85.0%	100.0%	85.0%
McLeod County	18,992	100.0%	100.0%	100.0%	16,881	98.4%	100.0%	98.4%
Meeker County	7,840	100.0%	100.0%	100.0%	15,301	91.1%	100.0%	91.1%
Mille Lacs County	7,441	98.7%	100.0%	98.7%	18,694	79.7%	100.0%	79.7%
Morrison County	8,832	99.2%	100.0%	99.2%	24,335	77.4%	100.0%	77.4%
Mower County	25,264	100.0%	100.0%	100.0%	14,737	92.5%	100.0%	92.5%
Murray County					8,276	99.9%	100.0%	99.9%
Nicollet County	24,414	94.6%	100.0%	94.6%	9,805	87.4%	100.0%	87.4%
Nobles County	12,576	100.0%	100.0%	100.0%	9,348	99.6%	100.0%	99.6%
Norman County					6,475	91.3%	100.0%	91.3%
Olmsted County	126,560	99.7%	100.0%	99.7%	29,708	97.4%	100.0%	97.4%
Otter Tail County	15,275	100.0%	100.0%	100.0%	43,532	97.7%	100.0%	97.7%
Pennington County	8,887	100.0%	100.0%	100.0%	5,291	94.3%	100.0%	94.3%
Pine County	3,089	92.8%	100.0%	92.8%	26,394	69.3%	100.0%	69.3%
Pipestone County	3,695	100.0%	100.0%	100.0%	5,352	99.3%	100.0%	99.3%
Polk County	15,985	96.5%	100.0%	96.5%	15,544	90.5%	100.0%	90.5%
Pope County					11,094	92.8%	100.0%	92.8%
Ramsey County	549,018	98.7%	100.0%	98.7%	1,170	97.4%	100.0%	97.4%
Red Lake County					3,999	100.0%	100.0%	100.0%
Redwood County	4,302	100.0%	100.0%	100.0%	10,947	100.0%	100.0%	100.0%
Renville County					14,612	100.0%	100.0%	100.0%
Rice County	48,460	98.6%	100.0%	98.6%	18,052	98.7%	100.0%	98.7%
Rock County	4,323	100.0%	100.0%	100.0%	5,091	100.0%	100.0%	100.0%
Roseau County	2,422	100.0%	100.0%	100.0%	12,728	62.9%	99.8%	62.9%
Scott County	119,901	98.4%	100.0%	98.4%	27,477	81.9%	100.0%	81.9%
Sherburne County	52,706	98.9%	100.0%	98.9%	43,298	85.3%	100.0%	85.3%
Sibley County					15,023	98.5%	100.0%	98.5%
St. Louis County	125,223	99.7%	100.0%	99.7%	74,531	74.3%	99.9%	74.2%
Stearns County	97,817	99.7%	100.0%	99.7%	61,433	80.9%	100.0%	80.9%
Steele County	25,261	100.0%	100.0%	100.0%	11,542	100.0%	100.0%	100.0%
Stevens County	4,991	98.2%	100.0%	98.2%	4,759	97.0%	100.0%	97.0%
Swift County	2,875	100.0%	100.0%	100.0%	6,470	99.7%	100.0%	99.7%
Todd County	4,869	100.0%	100.0%	100.0%	19,712	58.4%	100.0%	58.4%
Traverse County					3,308	75.5%	100.0%	75.5%

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Wabasha County	7,507	100.0%	100.0%	100.0%	14,138	100.0%	99.8%	99.8%
Wadena County	4,408	96.5%	100.0%	96.5%	9,363	94.2%	100.0%	94.2%
Waseca County	9,252	100.0%	100.0%	100.0%	9,439	100.0%	100.0%	100.0%
Washington County	216,920	98.4%	100.0%	98.4%	42,266	95.5%	100.0%	95.5%
Watsonwan County	4,333	99.9%	100.0%	99.9%	6,643	98.8%	100.0%	98.8%
Wilkin County	2,942	100.0%	100.0%	100.0%	3,312	97.8%	100.0%	97.8%
Winona County	33,317	100.0%	100.0%	100.0%	17,508	99.9%	99.3%	99.2%
Wright County	89,534	99.6%	100.0%	99.6%	46,812	81.2%	100.0%	81.2%
Yellow Medicine County	1,635	100.0%	100.0%	100.0%	8,160	100.0%	100.0%	100.0%
Mississippi								
Adams County	19,777	99.3%	100.0%	99.3%	11,415	63.9%	100.0%	63.9%
Alcorn County	12,425	99.4%	100.0%	99.4%	24,500	64.2%	100.0%	64.2%
Amite County					12,326	23.7%	100.0%	23.7%
Attala County	5,919	98.7%	100.0%	98.7%	12,446	31.1%	100.0%	31.1%
Benton County					8,271	44.0%	100.0%	44.0%
Bolivar County	13,493	97.9%	100.0%	97.9%	17,840	66.8%	100.0%	66.8%
Calhoun County					14,436	81.6%	100.0%	81.6%
Carroll County					9,911	36.1%	100.0%	36.1%
Chickasaw County	2,536	99.5%	100.0%	99.5%	14,634	48.9%	100.0%	48.9%
Choctaw County					8,278	27.7%	100.0%	27.7%
Claiborne County					9,002	58.3%	100.0%	58.3%
Clarke County					15,604	55.1%	99.6%	55.1%
Clay County	8,358	98.3%	100.0%	98.3%	11,028	40.8%	100.0%	40.8%
Coahoma County	15,424	97.7%	100.0%	97.7%	7,204	26.6%	100.0%	26.6%
Copiah County	9,516	81.9%	100.0%	81.9%	19,027	39.3%	99.9%	39.3%
Covington County					18,853	32.1%	100.0%	32.1%
DeSoto County	142,019	98.5%	100.0%	98.5%	39,970	88.2%	100.0%	88.2%
Forrest County	52,173	96.4%	100.0%	96.4%	22,863	68.5%	100.0%	68.5%
Franklin County					7,788	28.5%	100.0%	28.5%
George County	2,725	99.4%	100.0%	99.4%	21,525	75.0%	100.0%	75.0%
Greene County					13,586	25.2%	100.0%	25.2%
Grenada County	10,017	99.4%	100.0%	99.4%	11,038	69.7%	100.0%	69.7%
Hancock County	26,550	95.9%	100.0%	95.9%	20,784	77.6%	100.0%	77.5%
Harrison County	157,998	97.2%	100.0%	97.2%	48,652	91.3%	100.0%	91.3%
Hinds County	199,560	97.5%	100.0%	97.5%	37,525	68.7%	100.0%	68.7%
Holmes County	2,148	96.3%	100.0%	96.3%	15,474	60.6%	99.9%	60.6%

County or County Equivalent	Urban Areas				Rural Areas			
	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile
Humphreys County	4,035	100.0%	100.0%	100.0%	4,222	85.9%	100.0%	85.9%
Issaquena County					1,308	3.2%	100.0%	3.2%
Itawamba County	3,207	95.9%	100.0%	95.9%	20,310	65.2%	100.0%	65.2%
Jackson County	104,087	98.0%	100.0%	98.0%	39,183	90.8%	100.0%	90.8%
Jasper County					16,428	67.5%	100.0%	67.5%
Jefferson County					7,106	56.0%	100.0%	56.0%
Jefferson Davis County					11,234	61.9%	99.6%	61.9%
Jones County	25,831	94.7%	100.0%	94.7%	42,630	73.3%	100.0%	73.3%
Kemper County					10,026	10.9%	100.0%	10.9%
Lafayette County	28,041	94.7%	100.0%	94.7%	26,750	72.3%	100.0%	72.3%
Lamar County	29,631	99.0%	100.0%	99.0%	32,811	51.2%	100.0%	51.2%
Lauderdale County	38,053	95.3%	100.0%	95.3%	37,264	80.0%	100.0%	80.0%
Lawrence County					12,455	28.1%	100.0%	28.1%
Leake County	4,049	90.7%	100.0%	90.7%	18,713	43.7%	100.0%	43.7%
Lee County	45,911	98.1%	100.0%	98.1%	39,289	79.2%	100.0%	79.2%
Leflore County	23,583	98.4%	100.0%	98.4%	5,336	46.3%	100.0%	46.3%
Lincoln County	10,344	98.8%	100.0%	98.8%	23,861	53.2%	100.0%	53.2%
Lowndes County	33,738	97.9%	100.0%	97.9%	25,192	76.8%	100.0%	76.8%
Madison County	73,004	96.9%	100.0%	96.9%	32,624	82.6%	100.0%	82.6%
Marion County	6,460	60.7%	100.0%	60.7%	18,255	18.3%	100.0%	18.3%
Marshall County	5,694	82.0%	100.0%	82.0%	29,757	64.4%	100.0%	64.4%
Monroe County	10,509	98.9%	100.0%	98.9%	25,055	57.2%	100.0%	57.2%
Montgomery County	3,843	99.0%	100.0%	99.0%	6,180	62.9%	100.0%	62.9%
Neshoba County	7,600	98.1%	100.0%	98.1%	21,525	50.4%	100.0%	50.4%
Newton County	2,807	95.4%	100.0%	95.4%	18,635	34.0%	100.0%	34.0%
Noxubee County	2,732	76.5%	100.0%	76.5%	7,803	31.3%	100.0%	31.3%
Oktibbeha County	30,752	90.7%	100.0%	90.7%	18,847	64.8%	100.0%	64.8%
Panola County	7,017	95.9%	100.0%	95.9%	27,158	66.0%	100.0%	66.0%
Pearl River County	16,574	99.7%	100.0%	99.7%	38,813	74.4%	100.0%	74.4%
Perry County					11,931	22.9%	99.3%	22.9%
Pike County	15,903	99.4%	100.0%	99.4%	23,660	53.8%	100.0%	53.8%
Pontotoc County	4,963	98.8%	100.0%	98.8%	26,870	48.1%	100.0%	48.1%
Prentiss County	5,998	97.9%	100.0%	97.9%	19,317	57.0%	100.0%	57.0%
Quitman County	3,005	96.6%	100.0%	96.6%	4,046	34.9%	100.0%	34.9%
Rankin County	99,341	97.0%	100.0%	97.0%	54,558	88.4%	100.0%	88.4%
Scott County	7,696	98.3%	100.0%	98.3%	20,591	37.7%	100.0%	37.7%
Sharkey County					4,377	46.4%	100.0%	46.4%

County or County Equivalent	Urban Areas				Rural Areas			
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Simpson County	3,640	89.8%	100.0%	89.8%	23,118	48.7%	100.0%	48.7%
Smith County					16,002	44.2%	99.8%	44.0%
Stone County	3,863	97.0%	100.0%	97.0%	14,854	58.4%	100.0%	58.4%
Sunflower County	14,549	99.5%	100.0%	99.5%	11,186	44.1%	100.0%	44.1%
Tallahatchie County	2,459	98.2%	100.0%	98.2%	11,528	42.2%	100.0%	42.2%
Tate County	6,372	90.3%	100.0%	90.3%	22,385	67.2%	100.0%	67.2%
Tippah County	3,537	98.0%	100.0%	98.0%	18,458	79.9%	100.0%	79.9%
Tishomingo County					19,454	58.9%	100.0%	58.9%
Tunica County	3,446	93.9%	100.0%	93.9%	6,498	52.3%	100.0%	52.3%
Union County	6,873	95.8%	100.0%	95.8%	21,733	56.6%	100.0%	56.6%
Walthall County					14,465	16.9%	100.0%	16.9%
Warren County	27,555	96.6%	100.0%	96.6%	18,621	91.2%	100.0%	91.2%
Washington County	36,254	99.8%	100.0%	99.8%	8,809	63.2%	100.0%	63.2%
Wayne County	4,073	99.6%	100.0%	99.6%	16,225	52.4%	98.1%	52.1%
Webster County					9,788	47.2%	100.0%	47.2%
Wilkinson County					8,792	28.0%	99.0%	28.0%
Winston County	4,194	99.6%	100.0%	99.6%	13,971	55.1%	100.0%	55.1%
Yalobusha County	2,483	98.1%	100.0%	98.1%	9,909	57.9%	100.0%	57.9%
Yazoo County	14,702	97.5%	100.0%	97.5%	13,544	34.9%	99.7%	34.9%
Missouri								
Adair County	15,651	91.7%	100.0%	91.7%	9,688	60.5%	99.9%	60.5%
Andrew County	6,667	100.0%	100.0%	100.0%	10,940	86.3%	100.0%	86.3%
Atchison County					5,171	77.4%	100.0%	77.4%
Audrain County	14,483	90.6%	100.0%	90.6%	10,990	41.4%	100.0%	41.4%
Barry County	9,523	100.0%	100.0%	100.0%	26,363	97.1%	100.0%	97.1%
Barton County	3,358	100.0%	100.0%	100.0%	8,440	100.0%	100.0%	100.0%
Bates County	3,414	97.4%	100.0%	97.4%	12,906	58.9%	100.0%	58.9%
Benton County	2,570	0.0%	100.0%	0.0%	16,706	38.8%	100.0%	38.8%
Bollinger County					12,169	1.9%	100.0%	1.9%
Boone County	140,506	97.1%	100.0%	97.1%	39,495	80.5%	100.0%	80.5%
Buchanan County	76,359	99.9%	100.0%	99.9%	12,212	64.0%	100.0%	64.0%
Butler County	20,372	98.7%	100.0%	98.7%	22,267	43.4%	100.0%	43.4%
Caldwell County					9,108	43.1%	100.0%	43.1%
Callaway County	16,800	99.5%	100.0%	99.5%	28,089	99.0%	100.0%	99.0%
Camden County	11,650	100.0%	100.0%	100.0%	34,165	65.3%	100.0%	65.3%
Cape Girardeau County	53,665	99.8%	100.0%	99.8%	25,088	45.6%	100.0%	45.6%

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Carroll County	3,012	97.2%	100.0%	97.2%	5,731	50.0%	100.0%	50.0%
Carter County					6,054	21.0%	100.0%	21.0%
Cass County	69,522	99.2%	100.0%	99.2%	35,410	52.9%	100.0%	52.9%
Cedar County	3,414	100.0%	100.0%	100.0%	10,751	100.0%	100.0%	100.0%
Chariton County					7,451	49.7%	99.9%	49.6%
Christian County	45,645	100.0%	100.0%	100.0%	41,318	100.0%	100.0%	100.0%
Clark County					6,840	33.0%	99.9%	32.9%
Clay County	218,714	99.6%	100.0%	99.6%	27,628	63.1%	100.0%	63.1%
Clinton County	4,798	100.0%	100.0%	100.0%	15,672	63.8%	100.0%	63.8%
Cole County	54,194	99.0%	100.0%	99.0%	22,602	68.0%	100.0%	68.0%
Cooper County	8,143	100.0%	100.0%	100.0%	9,460	100.0%	100.0%	100.0%
Crawford County	6,512	99.8%	100.0%	99.8%	17,445	97.3%	99.8%	97.1%
Dade County					7,569	100.0%	100.0%	100.0%
Dallas County	2,849	100.0%	100.0%	100.0%	13,912	100.0%	99.9%	99.9%
Daviess County					8,313	55.4%	100.0%	55.4%
DeKalb County	4,660	69.2%	100.0%	69.2%	7,970	75.8%	100.0%	75.8%
Dent County	4,770	100.0%	100.0%	100.0%	10,671	42.8%	98.6%	42.2%
Douglas County	2,638	100.0%	100.0%	100.0%	10,733	100.0%	97.2%	97.2%
Dunklin County	14,311	99.5%	100.0%	99.5%	15,112	70.5%	100.0%	70.5%
Franklin County	45,456	98.8%	100.0%	98.8%	58,214	94.9%	100.0%	94.9%
Gasconade County	2,807	46.2%	100.0%	46.2%	11,898	72.6%	100.0%	72.6%
Gentry County					6,628	91.6%	100.0%	91.6%
Greene County	247,070	100.0%	100.0%	100.0%	44,838	100.0%	100.0%	100.0%
Grundy County	5,138	100.0%	100.0%	100.0%	4,776	63.7%	100.0%	63.7%
Harrison County	2,231	100.0%	100.0%	100.0%	6,183	45.0%	100.0%	45.0%
Henry County	10,681	81.5%	100.0%	81.5%	11,106	18.4%	100.0%	18.4%
Hickory County					9,509	100.0%	100.0%	100.0%
Holt County					4,404	55.5%	100.0%	55.5%
Howard County	3,504	45.7%	100.0%	45.7%	6,633	3.5%	100.0%	3.5%
Howell County	11,007	100.0%	100.0%	100.0%	29,069	88.2%	99.8%	88.0%
Iron County	2,594	99.2%	100.0%	99.2%	7,583	48.6%	98.7%	48.6%
Jackson County	671,261	99.7%	100.0%	99.7%	29,042	64.9%	100.0%	64.9%
Jasper County	90,038	100.0%	100.0%	100.0%	30,584	100.0%	100.0%	100.0%
Jefferson County	155,303	99.3%	100.0%	99.3%	69,044	83.8%	100.0%	83.8%
Johnson County	25,582	99.9%	100.0%	99.9%	28,070	26.5%	100.0%	26.5%
Knox County					3,947	12.8%	99.7%	12.5%
Laclede County	13,907	100.0%	100.0%	100.0%	21,805	100.0%	100.0%	100.0%

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Lafayette County	13,799	73.0%	100.0%	73.0%	18,799	51.6%	100.0%	51.6%
Lawrence County	15,525	100.0%	100.0%	100.0%	22,834	100.0%	100.0%	100.0%
Lewis County					9,855	66.2%	100.0%	66.1%
Lincoln County	13,800	99.9%	100.0%	99.9%	43,878	65.2%	100.0%	65.2%
Linn County	3,891	71.4%	100.0%	71.4%	8,146	76.0%	99.7%	76.0%
Livingston County	9,371	83.1%	100.0%	83.1%	5,775	56.9%	100.0%	56.9%
Macon County	4,580	100.0%	100.0%	100.0%	10,573	69.8%	99.9%	69.8%
Madison County	4,084	100.0%	100.0%	100.0%	8,104	23.7%	99.9%	23.7%
Maries County					8,769	22.3%	100.0%	22.3%
Marion County	21,384	100.0%	100.0%	100.0%	7,208	55.0%	100.0%	55.0%
McDonald County	3	0.0%	100.0%	0.0%	23,074	80.8%	100.0%	80.8%
Mercer County					3,641	67.9%	100.0%	67.9%
Miller County	5,042	99.7%	100.0%	99.7%	20,294	45.5%	100.0%	45.5%
Mississippi County	8,881	99.9%	100.0%	99.9%	4,455	54.3%	100.0%	54.3%
Moniteau County	7,469	100.0%	100.0%	100.0%	8,652	97.4%	100.0%	97.4%
Monroe County					8,661	53.8%	100.0%	53.8%
Montgomery County	2,196	100.0%	100.0%	100.0%	9,338	55.3%	100.0%	55.3%
Morgan County					20,357	95.5%	100.0%	95.4%
New Madrid County	7,062	99.8%	100.0%	99.8%	10,234	64.9%	100.0%	64.9%
Newton County	20,466	97.6%	100.0%	97.6%	37,800	80.4%	100.0%	80.4%
Nodaway County	12,174	100.0%	100.0%	100.0%	10,130	83.7%	100.0%	83.7%
Oregon County	2,063	78.0%	100.0%	78.0%	8,478	22.9%	97.6%	22.7%
Osage County					13,713	32.5%	100.0%	32.5%
Ozark County					9,017	8.2%	99.9%	8.2%
Pemiscot County	7,696	98.6%	100.0%	98.6%	8,576	56.2%	100.0%	56.2%
Perry County	8,340	99.2%	100.0%	99.2%	10,810	15.6%	100.0%	15.6%
Pettis County	26,232	97.5%	100.0%	97.5%	16,310	27.3%	100.0%	27.3%
Phelps County	23,778	100.0%	100.0%	100.0%	20,954	72.7%	100.0%	72.7%
Pike County	8,268	37.2%	100.0%	37.2%	10,236	30.5%	100.0%	30.5%
Platte County	83,689	98.5%	100.0%	98.5%	19,296	54.4%	100.0%	54.4%
Polk County	9,648	100.0%	100.0%	100.0%	22,551	100.0%	100.0%	100.0%
Pulaski County	28,566	98.8%	100.0%	98.8%	23,448	89.2%	100.0%	89.2%
Putnam County					4,757	87.9%	99.8%	87.7%
Ralls County	404	98.5%	100.0%	98.5%	9,808	87.7%	100.0%	87.7%
Randolph County	13,148	100.0%	100.0%	100.0%	11,615	41.4%	99.8%	41.2%
Ray County	5,672	98.2%	100.0%	98.2%	17,208	55.6%	100.0%	55.6%
Reynolds County					6,254	53.1%	95.8%	52.4%

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Ripley County					13,401	21.4%	99.6%	21.4%
Saline County	11,829	100.0%	100.0%	100.0%	11,065	52.0%	100.0%	52.0%
Schuyler County					4,597	9.4%	100.0%	9.4%
Scotland County					4,966	89.5%	100.0%	89.5%
Scott County	22,399	100.0%	100.0%	100.0%	16,059	65.8%	100.0%	65.8%
Shannon County					8,189	25.9%	97.9%	25.9%
Shelby County					6,050	46.2%	98.7%	45.8%
St. Charles County	369,752	99.7%	100.0%	99.7%	29,428	78.6%	100.0%	78.6%
St. Clair County					9,395	35.4%	100.0%	35.4%
St. Francois County	39,746	99.8%	100.0%	99.8%	26,946	62.1%	100.0%	62.1%
St. Louis County	985,354	99.8%	100.0%	99.8%	11,590	94.3%	100.0%	94.3%
St. Louis city	302,837	100.0%	100.0%	100.0%	1	100.0%	100.0%	100.0%
Ste. Genevieve County	4,224	99.7%	100.0%	99.7%	13,664	29.6%	100.0%	29.6%
Stoddard County	8,740	99.4%	100.0%	99.4%	20,466	60.6%	100.0%	60.6%
Stone County	3,444	100.0%	100.0%	100.0%	28,305	100.0%	100.0%	100.0%
Sullivan County					6,221	73.5%	100.0%	73.5%
Taney County	30,190	100.0%	100.0%	100.0%	25,662	92.9%	100.0%	92.9%
Texas County	205	100.0%	100.0%	100.0%	25,366	64.8%	99.8%	64.5%
Vernon County	8,032	100.0%	100.0%	100.0%	12,493	100.0%	100.0%	100.0%
Warren County	12,264	95.3%	100.0%	95.3%	22,443	80.8%	100.0%	80.8%
Washington County	4,799	61.0%	100.0%	61.0%	20,144	22.7%	99.8%	22.5%
Wayne County					13,122	24.9%	100.0%	24.9%
Webster County	9,668	100.0%	100.0%	100.0%	29,439	100.0%	100.0%	100.0%
Worth County					2,040	57.0%	100.0%	57.0%
Wright County	4,089	100.0%	100.0%	100.0%	14,289	100.0%	99.3%	99.3%
Montana								
Beaverhead County	4,489	99.2%	100.0%	99.2%	4,915	58.9%	91.9%	52.1%
Big Horn County	3,464	100.0%	100.0%	100.0%	9,874	78.5%	93.2%	76.1%
Blaine County					6,807	96.2%	83.0%	80.1%
Broadwater County					6,083	19.5%	100.0%	19.5%
Carbon County					10,714	96.6%	99.9%	96.5%
Carter County					1,238	51.2%	22.5%	9.0%
Cascade County	65,050	100.0%	100.0%	100.0%	16,593	99.4%	99.9%	99.3%
Chouteau County					5,745	98.9%	97.3%	96.3%
Custer County	9,208	100.0%	100.0%	100.0%	2,378	58.6%	90.5%	55.8%
Daniels County					1,747	98.3%	76.5%	75.6%
Dawson County	5,845	100.0%	100.0%	100.0%	2,835	64.6%	95.8%	60.8%

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Deer Lodge County	6,143	99.3%	100.0%	99.3%	2,988	39.0%	99.1%	38.1%
Fallon County					2,920	74.8%	97.9%	74.5%
Fergus County	6,041	100.0%	100.0%	100.0%	5,072	64.1%	91.7%	55.8%
Flathead County	46,837	100.0%	100.0%	100.0%	55,268	85.2%	99.4%	85.2%
Gallatin County	67,353	100.0%	100.0%	100.0%	44,515	83.6%	99.2%	83.3%
Garfield County					1,268	42.9%	76.2%	34.9%
Glacier County	7,466	85.1%	100.0%	85.1%	6,281	27.2%	98.8%	27.2%
Golden Valley County					826	90.3%	100.0%	90.3%
Granite County					3,378	21.7%	97.2%	21.2%
Hill County	9,631	99.9%	100.0%	99.9%	6,716	93.0%	99.4%	92.4%
Jefferson County					12,096	84.5%	100.0%	84.5%
Judith Basin County					1,952	81.6%	96.8%	79.7%
Lake County	4,857	99.7%	100.0%	99.7%	25,393	74.5%	100.0%	74.5%
Lewis and Clark County	46,483	100.0%	100.0%	100.0%	22,217	92.4%	99.0%	91.7%
Liberty County					2,430	83.5%	87.5%	70.9%
Lincoln County	3,893	0.0%	100.0%	0.0%	15,901	28.2%	91.5%	27.2%
Madison County					8,766	91.0%	99.4%	90.8%
McCone County					1,675	49.4%	88.4%	47.9%
Meagher County					1,866	96.9%	94.7%	92.0%
Mineral County					4,316	27.7%	98.7%	27.7%
Missoula County	89,026	99.7%	100.0%	99.7%	29,765	61.9%	99.4%	61.9%
Musselshell County					4,651	53.3%	99.9%	53.3%
Park County	8,374	100.0%	100.0%	100.0%	8,362	97.7%	97.6%	96.8%
Petroleum County					513	40.2%	90.1%	38.4%
Phillips County					4,074	83.8%	92.5%	81.9%
Pondera County	2,390	0.1%	100.0%	0.1%	3,582	63.4%	100.0%	63.4%
Powder River County					1,716	49.8%	83.0%	45.1%
Powell County	3,192	99.8%	100.0%	99.8%	3,776	15.8%	94.9%	15.6%
Prairie County					1,087	63.4%	97.1%	62.4%
Ravalli County	6,362	98.2%	100.0%	98.2%	36,809	70.2%	97.1%	69.0%
Richland County	4,974	100.0%	100.0%	100.0%	5,939	60.4%	91.6%	56.6%
Roosevelt County	6,143	82.1%	64.1%	61.2%	4,916	77.2%	91.0%	71.2%
Rosebud County					9,063	61.3%	88.4%	53.6%
Sanders County					11,844	24.6%	94.7%	22.4%
Sheridan County					3,424	86.7%	86.3%	74.6%
Silver Bow County	30,324	98.9%	100.0%	98.9%	4,667	53.5%	99.9%	53.4%

County or County Equivalent	Urban Areas				Rural Areas			
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Stillwater County					9,534	93.9%	97.7%	92.2%
Sweet Grass County					3,710	97.3%	98.9%	96.7%
Teton County					6,162	38.9%	99.3%	38.9%
Toole County	2,847	42.9%	100.0%	42.9%	2,006	14.5%	96.8%	14.5%
Treasure County					679	64.9%	98.5%	64.9%
Valley County	3,202	98.4%	100.0%	98.4%	4,235	79.3%	84.7%	69.7%
Wheatland County					2,235	97.3%	100.0%	97.3%
Wibaux County					1,034	8.7%	64.3%	8.4%
Yellowstone County	130,194	100.0%	100.0%	100.0%	29,941	98.6%	100.0%	98.6%
Nebraska								
Adams County	24,078	100.0%	100.0%	100.0%	7,433	66.8%	100.0%	66.8%
Antelope County					6,336	62.4%	100.0%	62.4%
Arthur County					464	75.6%	100.0%	75.6%
Banner County					730	9.5%	100.0%	9.5%
Blaine County					476	35.9%	100.0%	35.9%
Boone County					5,239	54.0%	100.0%	54.0%
Box Butte County	7,995	100.0%	100.0%	100.0%	2,777	87.1%	100.0%	87.1%
Boyd County					1,955	99.4%	100.0%	99.4%
Brown County					2,973	80.1%	99.2%	80.1%
Buffalo County	31,808	97.0%	100.0%	97.0%	17,807	70.0%	100.0%	70.0%
Burt County					6,488	76.8%	100.0%	76.8%
Butler County	2,602	100.0%	100.0%	100.0%	5,456	75.6%	100.0%	75.6%
Cass County	6,916	99.9%	100.0%	99.9%	19,242	74.7%	100.0%	74.7%
Cedar County					8,446	69.1%	100.0%	69.1%
Chase County					3,977	67.7%	100.0%	67.7%
Cherry County	2,649	100.0%	100.0%	100.0%	3,112	45.4%	94.7%	43.5%
Cheyenne County	5,592	100.0%	100.0%	100.0%	3,718	82.9%	100.0%	82.9%
Clay County					6,213	62.1%	100.0%	62.1%
Colfax County	6,114	93.6%	100.0%	93.6%	4,757	79.4%	100.0%	79.4%
Cuming County	2,911	99.0%	100.0%	99.0%	6,029	48.1%	100.0%	48.1%
Custer County	3,407	98.6%	100.0%	98.6%	7,433	41.0%	100.0%	41.0%
Dakota County	15,635	94.5%	100.0%	94.5%	4,448	74.6%	100.0%	74.6%
Dawes County	5,213	86.6%	100.0%	86.6%	3,503	70.5%	100.0%	70.5%
Dawson County	17,269	100.0%	100.0%	100.0%	6,440	36.6%	100.0%	36.6%
Deuel County					1,825	7.0%	100.0%	7.0%
Dixon County					5,709	87.1%	100.0%	87.1%
Dodge County	27,271	99.2%	100.0%	99.2%	9,520	75.7%	100.0%	75.7%

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Douglas County	549,500	98.5%	100.0%	98.5%	17,375	82.1%	100.0%	82.1%
Dundy County					1,770	80.6%	100.0%	80.6%
Fillmore County					5,527	60.4%	100.0%	60.4%
Franklin County					3,022	47.4%	100.0%	47.4%
Frontier County					2,608	67.4%	100.0%	67.4%
Furnas County					4,715	25.1%	100.0%	25.1%
Gage County	11,376	100.0%	100.0%	100.0%	10,117	45.1%	100.0%	45.1%
Garden County					1,897	25.6%	99.6%	25.4%
Garfield County					1,987	88.2%	99.8%	88.1%
Gosper County					1,996	12.5%	100.0%	12.5%
Grant County					660	32.7%	100.0%	32.7%
Greeley County					2,356	30.9%	100.0%	30.9%
Hall County	51,252	100.0%	100.0%	100.0%	10,354	97.5%	100.0%	97.5%
Hamilton County	4,430	44.6%	100.0%	44.6%	4,849	49.1%	100.0%	49.1%
Harlan County					3,401	2.9%	100.0%	2.9%
Hayes County					916	16.9%	100.0%	16.9%
Hitchcock County					2,806	33.3%	100.0%	33.3%
Holt County	3,464	100.0%	100.0%	100.0%	6,714	46.0%	99.8%	46.0%
Hooker County					682	23.5%	100.0%	23.5%
Howard County					6,466	69.2%	100.0%	69.2%
Jefferson County	2,378	100.0%	100.0%	100.0%	4,719	18.9%	99.9%	18.9%
Johnson County					5,134	48.8%	100.0%	48.8%
Kearney County	2,917	99.7%	100.0%	99.7%	3,627	66.7%	100.0%	66.7%
Keith County	4,254	100.0%	100.0%	100.0%	3,767	60.1%	100.0%	60.1%
Keya Paha County					810	96.5%	98.6%	95.2%
Kimball County					3,618	94.2%	100.0%	94.2%
Knox County					8,419	62.6%	99.9%	62.6%
Lancaster County	283,449	99.8%	100.0%	99.8%	33,803	63.5%	100.0%	63.5%
Lincoln County	24,399	100.0%	100.0%	100.0%	10,786	78.8%	100.0%	78.8%
Logan County					749	42.7%	100.0%	42.7%
Loup County					618	73.9%	100.0%	73.9%
Madison County	25,206	98.8%	100.0%	98.8%	10,177	68.6%	100.0%	68.6%
McPherson County					492	49.2%	99.8%	49.0%
Merrick County	2,992	87.3%	100.0%	87.3%	4,741	81.3%	100.0%	81.3%
Morrill County					4,686	59.1%	99.7%	59.1%
Nance County					3,532	50.4%	100.0%	50.4%
Nemaha County	3,281	99.9%	100.0%	99.9%	3,677	51.1%	100.0%	51.1%

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Nuckolls County					4,195	69.1%	100.0%	69.1%
Otoe County	7,069	100.0%	100.0%	100.0%	8,916	66.4%	100.0%	66.4%
Pawnee County					2,632	54.7%	100.0%	54.7%
Perkins County					2,929	56.7%	100.0%	56.7%
Phelps County	4,699	99.7%	100.0%	99.7%	4,297	60.4%	100.0%	60.4%
Pierce County					7,141	72.7%	100.0%	72.7%
Platte County	22,494	100.0%	100.0%	100.0%	10,868	58.3%	100.0%	58.3%
Polk County					5,278	82.6%	100.0%	82.6%
Red Willow County	7,306	98.7%	100.0%	98.7%	3,420	63.1%	100.0%	63.1%
Richardson County	3,836	100.0%	100.0%	100.0%	4,101	84.6%	100.0%	84.6%
Rock County					1,360	80.0%	100.0%	80.0%
Saline County	6,795	100.0%	100.0%	100.0%	7,555	75.5%	99.9%	75.4%
Sarpy County	169,327	95.8%	100.0%	95.8%	15,129	82.4%	100.0%	82.4%
Saunders County	6,994	99.9%	100.0%	99.9%	14,308	70.1%	100.0%	70.1%
Scotts Bluff County	24,865	99.8%	100.0%	99.8%	11,124	57.6%	100.0%	57.6%
Seward County	6,595	100.0%	100.0%	100.0%	10,714	77.6%	100.0%	77.6%
Sheridan County					5,190	61.9%	99.1%	61.7%
Sherman County					3,038	68.3%	100.0%	68.3%
Sioux County					1,187	11.0%	100.0%	11.0%
Stanton County	1,442	89.0%	100.0%	89.0%	4,528	80.9%	100.0%	80.9%
Thayer County					5,039	43.5%	100.0%	43.5%
Thomas County					720	32.4%	100.0%	32.4%
Thurston County					7,302	48.9%	100.0%	48.9%
Valley County					4,190	73.8%	100.0%	73.8%
Washington County	7,847	100.0%	100.0%	100.0%	12,820	74.3%	100.0%	74.3%
Wayne County	4,679	99.9%	100.0%	99.9%	4,721	45.5%	100.0%	45.5%
Webster County					3,533	86.4%	100.0%	86.4%
Wheeler County					805	76.4%	100.0%	76.4%
York County	7,444	100.0%	100.0%	100.0%	6,328	74.4%	100.0%	74.4%
Nevada								
Carson City	52,506	99.8%	100.0%	99.8%	2,908	93.4%	100.0%	93.4%
Churchill County	15,422	99.8%	100.0%	99.8%	9,018	72.2%	98.3%	72.2%
Clark County	2,171,654	97.7%	100.0%	97.7%	59,976	47.9%	99.5%	47.8%
Douglas County	32,579	99.9%	100.0%	99.9%	15,888	82.6%	100.0%	82.6%
Elko County	29,662	90.6%	100.0%	90.6%	22,798	33.1%	95.7%	33.0%
Esmeralda County					826	35.4%	99.3%	35.0%
Eureka County					2,003	1.3%	96.0%	1.3%

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Humboldt County	9,844	1.4%	100.0%	1.4%	6,942	2.7%	97.6%	2.7%
Lander County	3,390	0.0%	100.0%	0.0%	2,185	0.1%	93.3%	0.1%
Lincoln County					5,201	83.7%	95.9%	82.5%
Lyon County	33,019	97.4%	100.0%	97.4%	22,787	53.2%	99.8%	53.2%
Mineral County	3,125	99.4%	100.0%	99.4%	1,389	8.3%	93.4%	8.3%
Nye County	28,249	99.0%	100.0%	99.0%	17,097	59.0%	97.3%	59.0%
Pershing County					6,666	0.0%	98.3%	0.0%
Storey County	287	100.0%	100.0%	100.0%	3,742	44.3%	100.0%	44.3%
Washoe County	434,572	99.8%	100.0%	99.8%	31,159	61.4%	95.3%	61.4%
White Pine County	4,464	0.0%	100.0%	0.0%	5,011	0.2%	98.3%	0.2%
New Hampshire								
Belknap County	20,425	97.2%	100.0%	97.2%	40,597	97.4%	100.0%	97.4%
Carroll County	4,666	100.0%	100.0%	100.0%	44,113	95.7%	100.0%	95.7%
Cheshire County	26,373	99.2%	100.0%	99.2%	50,119	72.1%	100.0%	72.1%
Coos County	10,205	100.0%	100.0%	100.0%	21,384	75.5%	97.6%	74.6%
Grafton County	27,496	98.4%	100.0%	98.4%	62,288	90.4%	100.0%	90.4%
Hillsborough County	324,956	98.5%	100.0%	98.5%	90,286	95.3%	100.0%	95.3%
Merrimack County	67,773	97.5%	100.0%	97.5%	83,353	97.1%	100.0%	97.1%
Rockingham County	232,128	99.0%	99.9%	98.9%	77,045	98.9%	100.0%	98.9%
Strafford County	87,297	98.5%	99.9%	98.5%	42,793	97.9%	100.0%	97.9%
Sullivan County	15,320	97.4%	100.0%	97.4%	27,824	78.4%	100.0%	78.4%
New Jersey								
Atlantic County	230,431	97.8%	99.9%	97.7%	34,998	97.4%	100.0%	97.4%
Bergen County	935,627	99.9%	100.0%	99.9%	1,065	100.0%	100.0%	100.0%
Burlington County	415,280	98.5%	100.0%	98.5%	30,104	97.1%	100.0%	97.1%
Camden County	499,076	98.6%	100.0%	98.6%	8,002	99.7%	100.0%	99.7%
Cape May County	76,507	98.8%	99.9%	98.7%	16,053	97.0%	99.9%	97.0%
Cumberland County	117,974	98.1%	100.0%	98.1%	32,998	90.5%	100.0%	90.5%
Essex County	799,633	99.3%	100.0%	99.3%	134	97.0%	100.0%	97.0%
Gloucester County	266,954	99.0%	100.0%	99.0%	24,454	98.8%	100.0%	98.8%
Hudson County	676,061	99.2%	100.0%	99.2%				
Hunterdon County	62,480	98.4%	100.0%	98.4%	62,234	99.6%	100.0%	99.6%
Mercer County	356,453	98.3%	100.0%	98.3%	13,358	99.4%	100.0%	99.4%
Middlesex County	823,529	99.3%	100.0%	99.3%	6,156	99.5%	100.0%	99.5%
Monmouth County	597,806	99.7%	100.0%	99.7%	23,548	99.8%	100.0%	99.8%
Morris County	460,108	100.0%	100.0%	100.0%	34,120	99.8%	100.0%	99.8%
Ocean County	583,616	99.3%	99.9%	99.1%	18,030	98.2%	100.0%	98.2%

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Passaic County	490,758	100.0%	100.0%	100.0%	12,552	99.9%	100.0%	99.9%
Salem County	33,774	98.2%	100.0%	98.2%	28,833	95.8%	100.0%	95.8%
Somerset County	310,932	99.7%	100.0%	99.7%	20,232	98.7%	100.0%	98.7%
Sussex County	83,752	100.0%	100.0%	100.0%	57,047	99.9%	100.0%	99.9%
Union County	558,067	99.5%	100.0%	99.5%				
Warren County	65,141	99.6%	100.0%	99.6%	40,638	98.7%	100.0%	98.7%
New Mexico								
Bernalillo County	646,296	99.7%	100.0%	99.7%	32,399	76.5%	100.0%	76.5%
Catron County					3,578	8.7%	69.8%	7.8%
Chaves County	48,691	98.5%	100.0%	98.5%	15,998	55.6%	99.9%	55.6%
Cibola County	11,322	100.0%	100.0%	100.0%	15,424	53.3%	98.1%	51.8%
Colfax County	5,894	20.5%	100.0%	20.5%	6,216	8.9%	100.0%	8.9%
Curry County	41,390	99.8%	100.0%	99.8%	8,047	80.6%	100.0%	80.6%
De Baca County					1,781	79.3%	100.0%	79.3%
Doña Ana County	171,195	93.7%	100.0%	93.7%	46,322	60.8%	100.0%	60.8%
Eddy County	42,923	97.6%	100.0%	97.6%	14,977	43.9%	99.6%	43.9%
Grant County	15,729	96.9%	100.0%	96.9%	11,617	65.7%	99.5%	65.7%
Guadalupe County	1,854	100.0%	100.0%	100.0%	2,487	37.2%	100.0%	37.2%
Harding County					655	58.8%	100.0%	58.8%
Hidalgo County					4,240	3.1%	94.8%	2.4%
Lea County	51,093	97.9%	100.0%	97.9%	18,513	58.1%	100.0%	58.1%
Lincoln County	8,841	93.0%	100.0%	93.0%	10,714	68.2%	100.0%	68.2%
Los Alamos County	16,589	100.0%	100.0%	100.0%	2,512	96.1%	100.0%	96.1%
Luna County	13,577	91.6%	100.0%	91.6%	10,386	23.0%	99.9%	22.9%
McKinley County	26,227	80.4%	100.0%	80.4%	46,063	6.8%	99.6%	6.8%
Mora County					4,506	58.1%	98.2%	58.0%
Otero County	45,114	89.4%	100.0%	89.4%	21,663	58.6%	94.5%	58.6%
Quay County	4,540	50.7%	100.0%	50.7%	3,713	44.7%	100.0%	44.7%
Rio Arriba County	19,414	99.8%	100.0%	99.8%	19,592	68.6%	97.9%	68.0%
Roosevelt County	11,121	98.3%	100.0%	98.3%	7,622	42.0%	100.0%	42.0%
San Juan County	75,811	88.3%	100.0%	88.3%	49,232	28.8%	99.7%	28.8%
San Miguel County	14,560	73.5%	100.0%	73.5%	13,031	28.5%	99.9%	28.5%
Sandoval County	113,380	97.7%	100.0%	97.7%	31,797	57.6%	99.7%	57.4%
Santa Fe County	110,192	100.0%	100.0%	100.0%	39,857	91.1%	100.0%	91.1%
Sierra County	7,382	93.7%	100.0%	93.7%	3,586	48.5%	94.9%	44.8%
Socorro County	8,066	2.8%	100.0%	2.8%	8,669	7.1%	89.6%	7.1%
Taos County	13,362	86.7%	100.0%	86.7%	19,473	38.0%	92.3%	37.5%

County or County Equivalent	Urban Areas				Rural Areas			
	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile
Torrance County	200	100.0%	100.0%	100.0%	15,391	46.2%	100.0%	46.2%
Union County					4,118	74.0%	100.0%	74.0%
Valencia County	63,326	92.0%	100.0%	92.0%	13,129	60.4%	100.0%	60.4%
New York								
Albany County	276,473	100.0%	100.0%	100.0%	30,644	94.5%	99.4%	93.9%
Allegany County	8,503	100.0%	100.0%	100.0%	37,927	68.1%	99.9%	68.1%
Bronx County	1,432,090	99.7%	100.0%	99.7%	42	16.7%	54.8%	16.7%
Broome County	139,727	99.9%	100.0%	99.9%	51,932	90.0%	100.0%	90.0%
Cattaraugus County	28,490	99.5%	100.0%	99.5%	48,350	68.1%	100.0%	68.1%
Cayuga County	33,591	100.0%	100.0%	100.0%	43,554	74.0%	100.0%	74.0%
Chautauqua County	70,295	100.0%	100.0%	100.0%	57,644	89.8%	100.0%	89.8%
Chemung County	62,725	100.0%	100.0%	100.0%	21,529	89.9%	99.9%	89.9%
Chenango County	7,326	100.0%	100.0%	100.0%	40,210	88.6%	98.4%	87.7%
Clinton County	28,686	99.9%	100.0%	99.9%	52,009	88.8%	99.7%	88.6%
Columbia County	15,039	99.7%	100.0%	99.7%	44,877	98.6%	100.0%	98.6%
Cortland County	26,027	100.0%	100.0%	100.0%	21,796	82.3%	100.0%	82.3%
Delaware County	8,240	100.0%	100.0%	100.0%	36,287	84.8%	98.9%	84.0%
Dutchess County	217,636	99.9%	100.0%	99.9%	76,082	99.9%	100.0%	99.9%
Erie County	831,848	100.0%	100.0%	100.0%	87,871	98.4%	100.0%	98.4%
Essex County	8,904	100.0%	100.0%	100.0%	28,396	87.0%	98.4%	85.7%
Franklin County	17,331	100.0%	100.0%	100.0%	32,962	89.9%	99.1%	89.4%
Fulton County	26,731	100.0%	100.0%	100.0%	26,860	85.2%	99.2%	84.9%
Genesee County	21,710	100.0%	100.0%	100.0%	35,801	91.3%	100.0%	91.3%
Greene County	11,842	98.7%	100.0%	98.7%	35,649	94.6%	99.6%	94.2%
Hamilton County					4,434	22.2%	93.1%	21.9%
Herkimer County	28,701	100.0%	100.0%	100.0%	33,132	79.3%	99.4%	79.1%
Jefferson County	54,166	100.0%	100.0%	100.0%	57,589	96.6%	100.0%	96.6%
Kings County	2,582,706	100.0%	100.0%	100.0%	124	41.1%	99.2%	41.1%
Lewis County	3,224	100.0%	100.0%	100.0%	23,223	81.9%	99.7%	81.9%
Livingston County	28,130	100.0%	100.0%	100.0%	35,097	79.6%	100.0%	79.6%
Madison County	28,556	100.0%	100.0%	100.0%	42,239	88.3%	100.0%	88.3%
Monroe County	693,783	100.0%	100.0%	100.0%	48,691	99.2%	99.8%	99.0%
Montgomery County	28,820	100.0%	100.0%	100.0%	20,635	89.2%	100.0%	89.2%
Nassau County	1,355,598	100.0%	100.0%	100.0%	2,745	98.5%	99.9%	98.4%
New York County	1,628,701	100.0%	100.0%	100.0%				
Niagara County	162,542	100.0%	100.0%	100.0%	47,891	96.8%	100.0%	96.8%
Oneida County	152,283	100.0%	100.0%	100.0%	77,294	89.6%	100.0%	89.6%

County or County Equivalent	Urban Areas				Rural Areas			
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Onondaga County	402,656	100.0%	100.0%	100.0%	59,153	99.2%	100.0%	99.2%
Ontario County	57,423	100.0%	100.0%	100.0%	52,441	93.8%	100.0%	93.8%
Orange County	294,906	100.0%	100.0%	100.0%	87,045	99.7%	100.0%	99.7%
Orleans County	14,899	100.0%	100.0%	100.0%	25,713	94.9%	100.0%	94.9%
Oswego County	42,923	100.0%	100.0%	100.0%	74,975	98.4%	100.0%	98.4%
Otsego County	16,035	100.0%	100.0%	100.0%	43,714	70.9%	99.8%	70.8%
Putnam County	78,394	99.4%	100.0%	99.4%	20,498	99.7%	100.0%	99.7%
Queens County	2,278,894	100.0%	100.0%	100.0%	12	75.0%	100.0%	75.0%
Rensselaer County	110,389	100.0%	100.0%	100.0%	49,053	99.8%	100.0%	99.8%
Richmond County	476,179	100.0%	100.0%	100.0%				
Rockland County	323,133	100.0%	100.0%	100.0%	2,562	99.5%	100.0%	99.5%
Saratoga County	160,156	100.0%	100.0%	100.0%	70,007	99.6%	98.6%	98.3%
Schenectady County	142,498	100.0%	100.0%	100.0%	12,852	99.6%	100.0%	99.6%
Schoharie County	4,400	100.0%	100.0%	100.0%	26,697	96.6%	99.7%	96.4%
Schuyler County	3,295	100.0%	100.0%	100.0%	14,617	84.4%	100.0%	84.4%
Seneca County	14,064	100.0%	100.0%	100.0%	20,236	68.4%	100.0%	68.4%
St. Lawrence County	38,700	100.0%	100.0%	100.0%	69,347	88.5%	99.8%	88.3%
Steuben County	36,705	100.0%	100.0%	100.0%	59,091	71.9%	99.9%	71.8%
Suffolk County	1,440,875	100.0%	100.0%	100.0%	40,218	99.4%	99.9%	99.2%
Sullivan County	18,620	100.0%	100.0%	100.0%	56,878	98.8%	99.8%	98.7%
Tioga County	15,913	100.0%	100.0%	100.0%	32,647	91.1%	100.0%	91.1%
Tompkins County	56,512	100.0%	100.0%	100.0%	46,281	95.3%	100.0%	95.3%
Ulster County	94,996	100.0%	100.0%	100.0%	83,603	99.5%	98.8%	98.5%
Warren County	42,161	100.0%	100.0%	100.0%	22,104	80.2%	97.6%	79.5%
Washington County	19,514	100.0%	100.0%	100.0%	41,683	96.0%	100.0%	96.0%
Wayne County	34,205	100.0%	100.0%	100.0%	55,859	89.9%	100.0%	89.9%
Westchester County	933,761	100.0%	100.0%	100.0%	33,851	99.9%	100.0%	99.9%
Wyoming County	13,181	100.0%	100.0%	100.0%	26,904	76.6%	100.0%	76.6%
Yates County	6,880	99.7%	100.0%	99.7%	17,961	60.2%	100.0%	60.2%
North Carolina								
Alamance County	117,590	100.0%	100.0%	100.0%	48,835	95.7%	100.0%	95.7%
Alexander County	10,159	99.9%	100.0%	99.9%	27,194	82.0%	100.0%	82.0%
Alleghany County					11,157	94.6%	78.7%	74.7%
Anson County	5,447	100.0%	100.0%	100.0%	19,430	82.6%	100.0%	82.6%
Ashe County	4,141	100.0%	98.0%	98.0%	22,964	98.0%	57.1%	55.9%
Avery County	1,974	99.8%	100.0%	99.8%	15,531	95.8%	99.1%	94.9%
Beaufort County	15,964	99.9%	100.0%	99.9%	31,115	83.9%	100.0%	83.9%

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Bertie County	2,574	94.0%	100.0%	94.0%	16,452	81.3%	100.0%	81.3%
Bladen County	2,904	100.0%	100.0%	100.0%	30,286	57.7%	100.0%	57.7%
Brunswick County	71,930	99.9%	100.0%	99.9%	64,814	89.9%	99.8%	89.7%
Buncombe County	193,587	99.9%	100.0%	99.9%	65,510	95.9%	100.0%	95.9%
Burke County	51,934	99.9%	100.0%	99.9%	38,443	94.7%	100.0%	94.7%
Cabarrus County	166,997	100.0%	100.0%	100.0%	44,343	97.4%	100.0%	97.4%
Caldwell County	53,674	99.8%	100.0%	99.8%	28,355	93.6%	100.0%	93.6%
Camden County	47	85.1%	100.0%	85.1%	10,663	96.6%	100.0%	96.6%
Carteret County	46,834	100.0%	99.9%	99.9%	22,690	99.4%	99.8%	99.3%
Caswell County	191	92.1%	100.0%	92.1%	22,505	61.4%	100.0%	61.4%
Catawba County	110,425	99.9%	100.0%	99.9%	48,219	98.0%	100.0%	98.0%
Chatham County	23,873	99.2%	100.0%	99.2%	49,265	73.3%	100.0%	73.3%
Cherokee County					28,383	73.9%	97.0%	73.2%
Chowan County	4,334	98.8%	100.0%	98.8%	9,695	94.3%	100.0%	94.3%
Clay County					11,139	61.2%	98.1%	61.2%
Cleveland County	43,041	100.0%	100.0%	100.0%	54,604	92.1%	100.0%	92.1%
Columbus County	9,339	99.7%	100.0%	99.7%	46,316	81.0%	100.0%	81.0%
Craven County	73,625	99.9%	100.0%	99.9%	29,287	81.8%	100.0%	81.8%
Cumberland County	286,454	100.0%	100.0%	100.0%	45,876	96.6%	100.0%	96.6%
Currituck County	458	97.8%	100.0%	97.8%	26,614	97.1%	100.0%	97.1%
Dare County	25,829	99.9%	99.6%	99.5%	10,672	98.2%	98.8%	97.0%
Davidson County	87,344	100.0%	100.0%	100.0%	79,268	99.2%	100.0%	99.2%
Davie County	12,659	100.0%	100.0%	100.0%	30,074	99.4%	100.0%	99.4%
Duplin County	7,897	98.0%	100.0%	98.0%	50,959	83.4%	100.0%	83.4%
Durham County	294,250	100.0%	100.0%	100.0%	22,469	89.5%	100.0%	89.5%
Edgecombe County	27,654	99.8%	100.0%	99.8%	24,351	77.5%	100.0%	77.5%
Forsyth County	349,909	100.0%	100.0%	100.0%	29,187	99.7%	100.0%	99.7%
Franklin County	9,700	99.6%	100.0%	99.6%	57,859	84.8%	99.4%	84.7%
Gaston County	178,197	100.0%	100.0%	100.0%	44,647	99.3%	100.0%	99.3%
Gates County					11,573	62.5%	100.0%	62.5%
Graham County					8,484	51.4%	100.0%	51.4%
Granville County	26,227	99.6%	100.0%	99.6%	33,884	74.8%	100.0%	74.8%
Greene County					21,012	34.2%	100.0%	34.2%
Guilford County	461,991	100.0%	100.0%	100.0%	71,673	98.4%	100.0%	98.4%
Halifax County	23,778	99.9%	100.0%	99.9%	26,796	71.7%	100.0%	71.7%
Harnett County	58,385	99.8%	100.0%	99.8%	75,824	92.7%	100.0%	92.7%
Haywood County	27,188	99.3%	100.0%	99.3%	34,783	68.0%	99.9%	68.0%

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Henderson County	76,749	98.8%	100.0%	98.8%	39,999	78.4%	98.8%	77.2%
Hertford County	7,244	100.0%	100.0%	100.0%	16,415	74.7%	100.0%	74.7%
Hoke County	29,850	99.8%	100.0%	99.8%	24,914	76.1%	100.0%	76.1%
Hyde County					5,230	20.6%	99.9%	20.6%
Iredell County	108,620	100.0%	100.0%	100.0%	69,806	94.7%	100.0%	94.7%
Jackson County	11,030	97.3%	100.0%	97.3%	32,297	16.6%	99.0%	16.6%
Johnston County	95,706	99.9%	100.0%	99.9%	106,925	90.6%	100.0%	90.6%
Jones County					9,637	59.1%	100.0%	59.1%
Lee County	34,532	99.9%	100.0%	99.9%	26,919	96.1%	100.0%	96.1%
Lenoir County	30,340	98.2%	100.0%	98.2%	25,636	85.2%	100.0%	85.2%
Lincoln County	37,967	99.7%	100.0%	99.7%	45,801	97.5%	100.0%	97.5%
Macon County	6,894	99.9%	100.0%	99.9%	28,389	49.2%	100.0%	49.2%
Madison County	1,966	100.0%	100.0%	100.0%	19,797	100.0%	86.3%	86.3%
Martin County	4,645	100.0%	100.0%	100.0%	18,026	73.7%	100.0%	73.7%
McDowell County	13,416	99.6%	100.0%	99.6%	32,089	67.2%	99.9%	67.2%
Mecklenburg County	1,077,344	100.0%	100.0%	100.0%	16,546	99.9%	100.0%	99.9%
Mitchell County	2,589	96.1%	100.0%	96.1%	12,411	88.6%	95.9%	84.9%
Montgomery County	6,260	62.0%	100.0%	62.0%	21,011	55.6%	100.0%	55.6%
Moore County	47,918	100.0%	100.0%	100.0%	50,761	81.7%	100.0%	81.7%
Nash County	48,172	99.9%	100.0%	99.9%	45,844	86.4%	100.0%	86.4%
New Hanover County	226,238	100.0%	99.9%	99.9%	6,028	93.9%	100.0%	93.9%
Northampton County	2,156	99.5%	100.0%	99.5%	17,520	79.1%	100.0%	79.1%
Onslow County	138,016	100.0%	100.0%	100.0%	59,666	91.0%	100.0%	91.0%
Orange County	101,444	100.0%	100.0%	100.0%	44,578	93.5%	100.0%	93.5%
Pamlico County					12,670	87.3%	99.8%	87.1%
Pasquotank County	23,466	100.0%	100.0%	100.0%	16,173	99.7%	100.0%	99.7%
Pender County	18,523	100.0%	100.0%	100.0%	43,636	68.9%	99.9%	68.8%
Perquimans County					13,422	92.0%	100.0%	92.0%
Person County	9,569	99.9%	100.0%	99.9%	29,938	91.8%	100.0%	91.8%
Pitt County	132,427	99.6%	100.0%	99.6%	47,486	85.8%	100.0%	85.8%
Polk County	1,582	99.9%	100.0%	99.9%	19,029	76.2%	100.0%	76.2%
Randolph County	62,676	100.0%	100.0%	100.0%	80,675	96.1%	100.0%	96.0%
Richmond County	24,699	100.0%	100.0%	100.0%	20,188	85.9%	100.0%	85.9%
Robeson County	48,342	99.9%	100.0%	99.9%	83,489	75.4%	100.0%	75.4%
Rockingham County	34,472	100.0%	100.0%	100.0%	56,218	95.1%	100.0%	95.1%
Rowan County	86,094	100.0%	100.0%	100.0%	55,166	94.9%	100.0%	94.9%
Rutherford County	24,890	98.7%	100.0%	98.7%	41,934	81.5%	99.1%	81.5%

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Sampson County	9,494	71.0%	100.0%	71.0%	54,132	66.8%	100.0%	66.8%
Scotland County	17,766	100.0%	100.0%	100.0%	17,044	81.0%	100.0%	81.0%
Stanly County	20,051	100.0%	100.0%	100.0%	42,024	97.2%	100.0%	97.2%
Stokes County	10,749	100.0%	100.0%	100.0%	34,718	95.5%	99.9%	95.4%
Surry County	21,822	100.0%	100.0%	100.0%	50,126	98.2%	98.4%	96.7%
Swain County					14,245	46.1%	99.7%	46.1%
Transylvania County	13,724	100.0%	100.0%	100.0%	20,491	72.6%	96.6%	71.5%
Tyrrell County					4,131	77.9%	100.0%	77.9%
Union County	169,234	100.0%	100.0%	100.0%	66,662	95.5%	100.0%	95.5%
Vance County	20,769	99.7%	100.0%	99.7%	23,812	92.3%	100.0%	92.3%
Wake County	1,010,977	100.0%	100.0%	100.0%	81,324	97.8%	100.0%	97.8%
Warren County					19,807	68.0%	99.2%	67.9%
Washington County	3,899	99.4%	100.0%	99.4%	7,960	86.6%	100.0%	86.6%
Watauga County	23,482	100.0%	100.0%	100.0%	32,462	96.0%	99.0%	95.0%
Wayne County	65,810	100.0%	100.0%	100.0%	57,438	99.5%	100.0%	99.5%
Wilkes County	18,386	99.9%	100.0%	99.9%	50,171	99.1%	94.4%	93.5%
Wilson County	49,629	99.2%	100.0%	99.2%	31,826	97.4%	100.0%	97.4%
Yadkin County	5,700	100.0%	100.0%	100.0%	31,843	99.1%	100.0%	99.1%
Yancey County					17,903	90.4%	96.4%	87.6%
North Dakota								
Adams County					2,294	100.0%	99.7%	99.7%
Barnes County	5,982	100.0%	100.0%	100.0%	4,560	85.1%	100.0%	85.1%
Benson County					6,962	82.9%	100.0%	82.9%
Billings County					919	57.9%	97.7%	56.8%
Bottineau County					6,411	95.4%	100.0%	95.4%
Bowman County					3,076	100.0%	99.9%	99.9%
Burke County					2,100	55.2%	100.0%	55.2%
Burleigh County	69,974	98.6%	100.0%	98.6%	25,299	98.0%	100.0%	98.0%
Cass County	149,659	98.1%	100.0%	98.1%	31,846	65.2%	100.0%	65.2%
Cavalier County					3,828	100.0%	100.0%	100.0%
Dickey County					4,903	99.8%	100.0%	99.8%
Divide County					2,283	96.1%	92.8%	90.3%
Dunn County					4,332	98.3%	99.9%	98.2%
Eddy County					2,313	100.0%	100.0%	100.0%
Emmons County					3,295	100.0%	100.0%	100.0%
Foster County					3,216	100.0%	100.0%	100.0%
Golden Valley County					1,769	60.8%	98.2%	59.6%

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Grand Forks County	56,362	94.6%	100.0%	94.6%	14,408	73.0%	100.0%	73.0%
Grant County					2,374	96.3%	99.1%	95.8%
Griggs County					2,232	91.8%	100.0%	91.8%
Hettinger County					2,514	100.0%	100.0%	100.0%
Kidder County					2,450	100.0%	100.0%	100.0%
LaMoure County					4,062	100.0%	100.0%	100.0%
Logan County					1,903	100.0%	100.0%	100.0%
McHenry County					5,816	86.9%	100.0%	86.9%
McIntosh County					2,585	100.0%	100.0%	100.0%
McKenzie County					13,632	72.9%	98.6%	71.9%
McLean County					9,541	91.7%	100.0%	91.7%
Mercer County	2,679	100.0%	100.0%	100.0%	5,588	100.0%	100.0%	100.0%
Morton County	19,069	99.2%	100.0%	99.2%	12,026	93.6%	100.0%	93.6%
Mountrail County					10,218	86.2%	100.0%	86.2%
Nelson County					2,869	100.0%	100.0%	100.0%
Oliver County					1,952	100.0%	100.0%	100.0%
Pembina County					6,947	100.0%	100.0%	100.0%
Pierce County	2,267	100.0%	100.0%	100.0%	1,814	99.9%	100.0%	99.9%
Ramsey County	6,944	100.0%	100.0%	100.0%	4,537	99.9%	100.0%	99.9%
Ransom County					5,237	99.3%	100.0%	99.3%
Renville County					2,374	98.8%	100.0%	98.8%
Richland County	7,615	100.0%	100.0%	100.0%	8,624	96.5%	100.0%	96.5%
Rolette County					14,301	91.8%	100.0%	91.8%
Sargent County					3,870	100.0%	100.0%	100.0%
Sheridan County					1,349	100.0%	100.0%	100.0%
Sioux County					4,358	97.7%	99.1%	97.6%
Slope County					763	98.3%	98.3%	97.0%
Stark County	17,648	100.0%	100.0%	100.0%	13,346	95.4%	100.0%	95.4%
Steele County					1,903	68.7%	100.0%	68.7%
Stutsman County	14,962	100.0%	100.0%	100.0%	5,955	94.3%	100.0%	94.3%
Towner County					2,192	85.8%	100.0%	85.8%
Traill County					8,037	84.4%	100.0%	84.4%
Walsh County	3,818	98.3%	100.0%	98.3%	6,849	82.9%	100.0%	82.9%
Ward County	47,563	95.5%	100.0%	95.5%	20,181	95.7%	100.0%	95.7%
Wells County					3,957	100.0%	100.0%	100.0%
Williams County	14,234	97.3%	100.0%	97.3%	21,116	92.3%	99.7%	92.0%
Ohio								

County or County Equivalent	Urban Areas				Rural Areas			
	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile
Adams County	2,855	100.0%	100.0%	100.0%	24,869	56.6%	99.9%	56.6%
Allen County	75,202	100.0%	100.0%	100.0%	27,461	88.0%	100.0%	88.0%
Ashland County	20,295	86.2%	100.0%	86.2%	33,449	77.8%	100.0%	77.8%
Ashtabula County	51,016	100.0%	99.9%	99.9%	46,477	84.8%	100.0%	84.8%
Athens County	36,041	79.8%	100.0%	79.8%	29,777	76.8%	99.8%	76.8%
Auglaize County	27,757	100.0%	100.0%	100.0%	18,047	85.1%	100.0%	85.1%
Belmont County	31,060	95.2%	100.0%	95.2%	36,445	74.2%	99.9%	74.1%
Brown County	9,963	85.3%	100.0%	85.3%	33,639	63.6%	100.0%	63.6%
Butler County	346,058	100.0%	100.0%	100.0%	36,311	98.2%	100.0%	98.2%
Carroll County	7,300	100.0%	100.0%	100.0%	19,781	37.3%	99.9%	37.3%
Champaign County	10,969	100.0%	100.0%	100.0%	27,785	74.9%	100.0%	74.9%
Clark County	102,473	100.0%	100.0%	100.0%	32,112	97.3%	100.0%	97.3%
Clermont County	157,736	100.0%	100.0%	100.0%	47,730	97.1%	100.0%	97.1%
Clinton County	19,039	100.0%	100.0%	100.0%	23,018	58.7%	100.0%	58.7%
Columbiana County	56,100	97.3%	100.0%	97.3%	46,565	65.5%	100.0%	65.5%
Coshocton County	14,023	100.0%	100.0%	100.0%	22,606	48.6%	99.8%	48.5%
Crawford County	26,267	100.0%	100.0%	100.0%	15,283	98.4%	100.0%	98.4%
Cuyahoga County	1,236,433	99.3%	100.0%	99.3%	7,424	100.0%	100.0%	100.0%
Darke County	16,544	100.0%	100.0%	100.0%	34,779	87.5%	100.0%	87.5%
Defiance County	21,024	100.0%	100.0%	100.0%	17,141	99.4%	100.0%	99.4%
Delaware County	163,019	100.0%	100.0%	100.0%	41,782	87.3%	100.0%	87.3%
Erie County	54,326	98.6%	99.8%	98.4%	20,289	92.9%	100.0%	92.9%
Fairfield County	100,487	100.0%	100.0%	100.0%	55,287	91.0%	100.0%	91.0%
Fayette County	14,883	100.0%	100.0%	100.0%	13,783	75.9%	100.0%	75.9%
Franklin County	1,290,358	100.0%	100.0%	100.0%	19,916	99.5%	100.0%	99.5%
Fulton County	18,082	100.0%	100.0%	100.0%	24,194	99.4%	100.0%	99.4%
Gallia County	5,509	100.0%	100.0%	100.0%	24,470	82.5%	99.4%	82.2%
Geauga County	33,887	99.5%	100.0%	99.5%	60,142	82.3%	100.0%	82.3%
Greene County	141,866	100.0%	100.0%	100.0%	26,128	73.8%	100.0%	73.8%
Guernsey County	14,943	91.6%	100.0%	91.6%	24,079	49.5%	100.0%	49.5%
Hamilton County	797,681	100.0%	100.0%	100.0%	19,000	100.0%	100.0%	100.0%
Hancock County	51,748	100.0%	100.0%	100.0%	24,179	86.0%	100.0%	86.0%
Hardin County	13,657	99.5%	100.0%	99.5%	17,821	75.0%	100.0%	75.0%
Harrison County	2,263	100.0%	100.0%	100.0%	12,911	41.8%	100.0%	41.8%
Henry County	7,814	100.0%	100.0%	100.0%	19,272	100.0%	100.0%	100.0%
Highland County	11,437	100.0%	100.0%	100.0%	31,621	61.6%	99.9%	61.5%
Hocking County	7,874	100.0%	100.0%	100.0%	20,511	42.9%	99.6%	42.9%

County or County Equivalent	Urban Areas				Rural Areas			
	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile
Holmes County	3,008	100.0%	100.0%	100.0%	40,884	57.9%	99.8%	57.7%
Huron County	28,573	100.0%	100.0%	100.0%	29,931	77.0%	100.0%	77.0%
Jackson County	11,537	99.4%	100.0%	99.4%	20,847	54.4%	100.0%	54.4%
Jefferson County	38,929	97.6%	100.0%	97.6%	26,838	79.4%	99.9%	79.4%
Knox County	26,661	100.0%	100.0%	100.0%	35,228	58.7%	100.0%	58.7%
Lake County	215,384	100.0%	100.0%	100.0%	15,128	98.7%	100.0%	98.7%
Lawrence County	32,985	95.1%	100.0%	95.1%	26,881	74.7%	95.3%	74.2%
Licking County	110,546	100.0%	100.0%	100.0%	65,219	86.9%	100.0%	86.9%
Logan County	19,268	100.0%	100.0%	100.0%	26,090	73.7%	100.0%	73.7%
Lorain County	272,884	93.2%	100.0%	93.2%	36,571	74.8%	100.0%	74.8%
Lucas County	409,310	99.0%	100.0%	99.0%	20,589	98.1%	100.0%	98.1%
Madison County	22,084	99.6%	100.0%	99.6%	22,329	87.1%	100.0%	87.1%
Mahoning County	193,711	99.2%	100.0%	99.2%	35,931	95.6%	100.0%	95.6%
Marion County	45,048	100.0%	100.0%	100.0%	20,205	88.0%	100.0%	88.0%
Medina County	125,387	99.7%	100.0%	99.7%	53,746	95.1%	100.0%	95.1%
Meigs County	4,289	100.0%	100.0%	100.0%	18,817	53.5%	99.6%	53.5%
Mercer County	15,738	100.0%	100.0%	100.0%	25,220	99.9%	100.0%	99.9%
Miami County	72,831	100.0%	100.0%	100.0%	33,386	86.8%	100.0%	86.8%
Monroe County	212	0.0%	100.0%	0.0%	13,578	21.5%	98.7%	21.5%
Montgomery County	508,989	100.0%	100.0%	100.0%	23,342	95.5%	100.0%	95.5%
Morgan County	2,649	100.0%	96.4%	96.4%	11,955	47.2%	98.8%	47.2%
Morrow County	3,914	100.0%	100.0%	100.0%	31,198	70.9%	100.0%	70.9%
Muskingum County	44,848	100.0%	100.0%	100.0%	41,335	76.4%	99.4%	76.0%
Noble County	5,262	100.0%	100.0%	100.0%	9,092	44.2%	99.6%	44.2%
Ottawa County	20,547	100.0%	99.2%	99.2%	20,220	100.0%	99.8%	99.8%
Paulding County	3,226	100.0%	100.0%	100.0%	15,534	100.0%	100.0%	100.0%
Perry County	8,894	99.9%	100.0%	99.9%	27,139	61.7%	99.7%	61.7%
Pickaway County	28,733	99.8%	100.0%	99.8%	29,344	75.2%	100.0%	75.2%
Pike County	7,129	97.9%	100.0%	97.9%	20,938	78.5%	100.0%	78.5%
Portage County	108,777	99.9%	100.0%	99.9%	54,148	90.3%	100.0%	90.3%
Preble County	12,669	100.0%	100.0%	100.0%	28,328	98.0%	100.0%	98.0%
Putnam County	4,883	100.0%	100.0%	100.0%	28,897	99.8%	100.0%	99.8%
Richland County	81,022	97.1%	100.0%	97.1%	40,072	90.8%	100.0%	90.8%
Ross County	31,539	100.0%	100.0%	100.0%	45,392	87.9%	100.0%	87.9%
Sandusky County	32,208	100.0%	100.0%	100.0%	26,591	100.0%	100.0%	100.0%
Scioto County	33,583	100.0%	100.0%	100.0%	41,919	73.4%	99.0%	73.1%
Seneca County	28,494	100.0%	100.0%	100.0%	26,713	92.6%	100.0%	92.6%

County or County Equivalent	Urban Areas				Rural Areas			
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Shelby County	23,471	100.0%	100.0%	100.0%	25,156	85.5%	100.0%	85.5%
Stark County	320,631	100.0%	100.0%	100.0%	50,943	94.8%	100.0%	94.8%
Summit County	520,691	100.0%	100.0%	100.0%	21,220	99.6%	100.0%	99.6%
Trumbull County	143,242	99.1%	100.0%	99.1%	55,385	90.7%	100.0%	90.7%
Tuscarawas County	53,814	100.0%	100.0%	100.0%	38,362	67.0%	100.0%	67.0%
Union County	27,715	100.0%	100.0%	100.0%	30,119	63.6%	100.0%	63.6%
Van Wert County	13,584	100.0%	100.0%	100.0%	14,696	100.0%	100.0%	100.0%
Vinton County					13,139	38.7%	99.8%	38.7%
Warren County	190,753	100.0%	100.0%	100.0%	41,410	87.4%	100.0%	87.4%
Washington County	25,873	97.1%	100.0%	97.1%	34,282	66.7%	98.9%	66.7%
Wayne County	56,098	99.2%	100.0%	99.2%	59,869	83.7%	100.0%	83.7%
Williams County	13,242	100.0%	100.0%	100.0%	23,562	98.1%	100.0%	98.1%
Wood County	90,948	100.0%	100.0%	100.0%	39,747	100.0%	100.0%	100.0%
Wyandot County	9,011	100.0%	100.0%	100.0%	12,924	73.6%	100.0%	73.6%
Oklahoma								
Adair County	3,518	67.1%	100.0%	67.1%	18,564	60.9%	100.0%	60.9%
Alfalfa County					5,754	100.0%	100.0%	100.0%
Atoka County					13,838	32.3%	100.0%	32.3%
Beaver County					5,319	80.3%	99.9%	80.2%
Beckham County	13,387	95.0%	100.0%	95.0%	8,322	27.0%	100.0%	27.0%
Blaine County	2,658	89.7%	100.0%	89.7%	6,827	69.3%	100.0%	69.3%
Bryan County	17,215	96.1%	100.0%	96.1%	29,977	69.7%	100.0%	69.7%
Caddo County	5,735	0.0%	100.0%	0.0%	23,242	73.9%	100.0%	73.9%
Canadian County	101,115	97.6%	100.0%	97.6%	43,273	70.0%	100.0%	70.0%
Carter County	21,006	97.6%	100.0%	97.6%	27,171	51.4%	100.0%	51.4%
Cherokee County	18,933	82.2%	100.0%	82.2%	29,742	63.0%	100.0%	63.0%
Choctaw County	4,740	44.9%	100.0%	44.9%	9,928	6.3%	100.0%	6.3%
Cimarron County					2,153	74.5%	98.7%	73.6%
Cleveland County	226,924	93.5%	100.0%	93.5%	54,733	32.2%	100.0%	32.2%
Coal County					5,520	42.2%	100.0%	42.2%
Comanche County	94,407	98.2%	100.0%	98.2%	26,015	70.3%	100.0%	70.3%
Cotton County	2,244	16.5%	100.0%	16.5%	3,532	61.5%	100.0%	61.5%
Craig County	5,260	100.0%	100.0%	100.0%	9,046	98.3%	100.0%	98.3%
Creek County	32,546	88.0%	100.0%	88.0%	39,058	52.7%	100.0%	52.7%
Custer County	18,933	98.8%	100.0%	98.8%	10,099	51.5%	100.0%	51.5%
Delaware County	7,908	98.8%	100.0%	98.8%	34,825	85.1%	100.0%	85.1%
Dewey County					4,894	21.6%	100.0%	21.6%

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Ellis County					3,952	57.5%	100.0%	57.5%
Garfield County	46,404	99.6%	100.0%	99.6%	14,509	75.6%	100.0%	75.6%
Garvin County	8,179	98.8%	100.0%	98.8%	19,632	38.8%	100.0%	38.8%
Grady County	19,473	96.3%	100.0%	96.3%	36,071	41.6%	100.0%	41.6%
Grant County					4,326	100.0%	100.0%	100.0%
Greer County	2,766	98.8%	100.0%	98.8%	3,055	5.7%	100.0%	5.7%
Harmon County					2,664	61.1%	100.0%	61.1%
Harper County					3,797	77.5%	100.0%	77.5%
Haskell County	2,753	97.5%	100.0%	97.5%	9,915	23.5%	100.0%	23.5%
Hughes County	5,101	96.3%	100.0%	96.3%	8,234	11.1%	100.0%	11.1%
Jackson County	18,447	98.2%	100.0%	98.2%	6,502	21.4%	100.0%	21.4%
Jefferson County					6,123	30.9%	100.0%	30.9%
Johnston County					10,949	51.2%	100.0%	51.2%
Kay County	32,886	84.4%	100.0%	84.4%	11,275	98.3%	100.0%	98.3%
Kingfisher County	4,174	77.3%	100.0%	77.3%	11,642	77.6%	100.0%	77.6%
Kiowa County	3,253	97.3%	100.0%	97.3%	5,476	54.9%	100.0%	54.9%
Latimer County	2,700	90.7%	100.0%	90.7%	7,531	36.9%	95.9%	35.3%
Le Flore County	13,489	90.7%	100.0%	90.7%	36,491	37.8%	99.8%	37.8%
Lincoln County	2,721	100.0%	100.0%	100.0%	32,199	91.5%	100.0%	91.5%
Logan County	19,674	100.0%	100.0%	100.0%	27,613	100.0%	100.0%	100.0%
Love County					10,133	79.2%	100.0%	79.2%
Major County					7,644	43.7%	100.0%	43.7%
Marshall County	4,526	98.0%	100.0%	98.0%	12,280	69.9%	100.0%	69.9%
Mayes County	9,170	95.6%	100.0%	95.6%	31,936	86.3%	100.0%	86.3%
McClain County	8,429	67.0%	100.0%	67.0%	31,539	73.0%	100.0%	73.0%
McCurtain County	9,743	71.8%	100.0%	71.8%	22,960	9.7%	94.8%	8.1%
McIntosh County	2,408	97.8%	100.0%	97.8%	17,405	30.8%	100.0%	30.8%
Murray County	7,448	98.7%	100.0%	98.7%	6,504	23.9%	100.0%	23.9%
Muskogee County	38,121	99.8%	100.0%	99.8%	30,241	39.8%	100.0%	39.8%
Noble County	4,842	100.0%	100.0%	100.0%	6,447	90.6%	100.0%	90.6%
Nowata County	4,165	100.0%	100.0%	100.0%	6,053	74.6%	100.0%	74.6%
Okfuskee County	3,067	97.4%	100.0%	97.4%	9,031	14.6%	100.0%	14.6%
Oklahoma County	732,780	96.9%	100.0%	96.9%	59,782	86.4%	100.0%	86.4%
Okmulgee County	19,295	96.1%	100.0%	96.1%	19,040	27.3%	100.0%	27.3%
Osage County	18,437	87.0%	100.0%	87.0%	28,577	67.4%	100.0%	67.4%
Ottawa County	15,543	100.0%	100.0%	100.0%	15,632	98.6%	100.0%	98.6%
Pawnee County	3,023	0.0%	100.0%	0.0%	13,367	34.8%	100.0%	34.8%

County or County Equivalent	Urban Areas				Rural Areas			
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Payne County	52,478	100.0%	100.0%	100.0%	29,555	100.0%	100.0%	100.0%
Pittsburg County	20,298	96.3%	100.0%	96.3%	23,579	45.9%	100.0%	45.9%
Pontotoc County	17,570	98.8%	100.0%	98.8%	20,677	51.7%	100.0%	51.7%
Pottawatomie County	34,924	97.5%	100.0%	97.5%	37,748	73.0%	100.0%	73.0%
Pushmataha County					11,179	29.8%	80.5%	24.5%
Roger Mills County					3,656	12.9%	100.0%	12.9%
Rogers County	44,571	99.9%	100.0%	99.9%	47,406	98.8%	100.0%	98.8%
Seminole County	8,444	100.0%	100.0%	100.0%	16,134	34.2%	100.0%	34.2%
Sequoyah County	13,184	37.5%	100.0%	37.5%	27,995	29.0%	100.0%	29.0%
Stephens County	23,620	99.8%	100.0%	99.8%	19,645	42.1%	100.0%	42.1%
Texas County	10,435	98.8%	100.0%	98.8%	10,020	76.8%	100.0%	76.8%
Tillman County	3,494	99.4%	100.0%	99.4%	3,854	71.4%	100.0%	71.4%
Tulsa County	614,205	99.4%	100.0%	99.4%	34,137	82.3%	100.0%	82.3%
Wagoner County	46,620	99.5%	100.0%	99.5%	33,483	72.4%	100.0%	72.4%
Washington County	39,094	98.9%	100.0%	98.9%	12,749	59.8%	100.0%	59.8%
Washita County	2,829	98.2%	100.0%	98.2%	8,298	56.0%	100.0%	56.0%
Woods County	5,238	100.0%	100.0%	100.0%	3,659	65.6%	100.0%	65.6%
Woodward County	11,066	4.5%	100.0%	4.5%	9,156	36.7%	100.0%	36.7%
Oregon								
Baker County	8,757	99.8%	100.0%	99.8%	7,249	37.9%	93.7%	36.0%
Benton County	71,928	100.0%	100.0%	100.0%	20,171	97.6%	99.6%	97.4%
Clackamas County	333,565	98.1%	100.0%	98.1%	82,499	82.1%	99.2%	81.6%
Clatsop County	23,244	100.0%	100.0%	100.0%	16,519	56.8%	99.8%	56.8%
Columbia County	28,609	98.1%	100.0%	98.1%	23,768	50.7%	99.1%	50.7%
Coos County	39,036	99.9%	100.0%	99.9%	25,353	70.8%	97.5%	70.7%
Crook County	11,154	100.0%	100.0%	100.0%	12,708	84.2%	97.8%	84.2%
Curry County	13,641	99.9%	100.0%	99.9%	9,170	84.5%	96.8%	83.7%
Deschutes County	132,609	100.0%	100.0%	100.0%	59,377	92.9%	100.0%	92.9%
Douglas County	63,088	100.0%	100.0%	100.0%	47,194	79.5%	96.8%	79.1%
Gilliam County					1,894	54.3%	99.8%	54.3%
Grant County					7,176	59.2%	86.3%	58.9%
Harney County	4,073	43.9%	100.0%	43.9%	3,256	19.7%	95.6%	19.7%
Hood River County	11,005	100.0%	100.0%	100.0%	12,423	94.2%	99.9%	94.2%
Jackson County	170,672	98.8%	100.0%	98.8%	48,891	74.6%	95.1%	72.9%
Jefferson County	8,294	100.0%	100.0%	100.0%	15,896	89.4%	98.6%	89.4%
Josephine County	46,871	99.8%	100.0%	99.8%	40,521	53.9%	98.8%	53.9%
Klamath County	40,346	100.0%	100.0%	100.0%	27,307	62.7%	99.8%	62.7%

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Lake County	1,999	100.0%	100.0%	100.0%	5,880	30.0%	98.5%	29.8%
Lane County	304,718	97.1%	100.0%	97.1%	74,888	73.4%	95.9%	73.0%
Lincoln County	29,835	99.2%	99.5%	98.8%	19,552	84.4%	97.0%	82.8%
Linn County	82,936	99.8%	100.0%	99.8%	44,399	90.9%	98.4%	90.6%
Malheur County	15,616	96.8%	100.0%	96.8%	15,109	29.2%	98.2%	28.7%
Marion County	292,941	99.9%	100.0%	99.9%	53,927	92.0%	98.7%	91.6%
Morrow County	5,968	89.6%	100.0%	89.6%	5,403	47.8%	98.4%	47.8%
Multnomah County	799,491	98.1%	100.0%	98.1%	12,373	76.7%	100.0%	76.7%
Polk County	64,018	100.0%	100.0%	100.0%	21,214	89.6%	96.6%	89.0%
Sherman County					1,708	58.9%	100.0%	58.9%
Tillamook County	7,698	99.1%	100.0%	99.1%	19,089	89.7%	94.2%	87.6%
Umatilla County	53,729	97.4%	100.0%	97.4%	23,785	61.1%	98.3%	61.1%
Union County	13,752	99.9%	100.0%	99.9%	12,709	40.3%	99.3%	40.3%
Wallowa County					7,081	90.6%	94.0%	88.7%
Wasco County	17,212	99.5%	100.0%	99.5%	9,293	57.6%	99.3%	57.5%
Washington County	557,947	99.1%	100.0%	99.1%	39,714	61.4%	98.7%	61.4%
Wheeler County					1,366	0.0%	63.0%	0.0%
Yamhill County	79,877	99.0%	100.0%	99.0%	27,118	59.4%	98.6%	59.2%
Pennsylvania								
Adams County	47,356	98.1%	100.0%	98.1%	55,455	90.9%	99.7%	90.7%
Allegheny County	1,187,481	99.3%	100.0%	99.3%	30,971	98.4%	100.0%	98.4%
Armstrong County	21,659	99.3%	100.0%	99.3%	43,604	92.6%	99.8%	92.5%
Beaver County	121,250	99.3%	100.0%	99.3%	43,492	95.6%	100.0%	95.6%
Bedford County	7,925	96.8%	100.0%	96.8%	40,251	70.6%	99.5%	70.2%
Berks County	319,015	98.5%	100.0%	98.5%	101,134	96.0%	100.0%	96.0%
Blair County	93,953	89.0%	100.0%	89.0%	28,539	74.8%	99.3%	74.5%
Bradford County	16,371	99.4%	100.0%	99.4%	44,462	56.7%	99.4%	56.5%
Bucks County	572,225	98.5%	100.0%	98.5%	55,970	99.6%	100.0%	99.6%
Butler County	108,653	97.8%	100.0%	97.8%	79,235	94.2%	100.0%	94.2%
Cambria County	88,679	94.3%	100.0%	94.3%	43,051	91.2%	100.0%	91.2%
Cameron County	2,482	99.2%	100.0%	99.2%	2,010	88.0%	80.4%	75.7%
Carbon County	34,685	96.7%	100.0%	96.7%	29,542	98.1%	100.0%	98.1%
Centre County	107,499	99.4%	100.0%	99.4%	55,306	79.9%	99.9%	79.8%
Chester County	450,696	99.2%	100.0%	99.2%	71,343	96.7%	100.0%	96.7%
Clarion County	8,041	93.3%	100.0%	93.3%	30,737	81.8%	99.5%	81.3%
Clearfield County	35,564	86.7%	100.0%	86.7%	43,824	75.1%	100.0%	75.1%
Clinton County	20,573	96.7%	100.0%	96.7%	18,111	85.0%	99.9%	85.0%

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Columbia County	37,945	87.5%	100.0%	87.5%	27,511	66.6%	100.0%	66.6%
Crawford County	28,697	95.1%	100.0%	95.1%	56,366	68.6%	100.0%	68.6%
Cumberland County	192,967	95.9%	100.0%	95.9%	58,456	93.7%	100.0%	93.7%
Dauphin County	239,144	99.0%	100.0%	99.0%	37,953	94.0%	100.0%	94.0%
Delaware County	562,062	99.0%	100.0%	99.0%	2,689	99.6%	100.0%	99.6%
Elk County	12,868	99.6%	100.0%	99.6%	17,301	93.0%	99.4%	92.5%
Erie County	215,592	99.8%	100.0%	99.8%	56,469	73.6%	100.0%	73.6%
Fayette County	67,251	89.7%	100.0%	89.7%	63,190	86.6%	100.0%	86.6%
Forest County					7,279	72.2%	99.8%	72.2%
Franklin County	91,423	98.2%	100.0%	98.2%	63,411	82.9%	99.6%	82.9%
Fulton County					14,523	44.3%	100.0%	44.3%
Greene County	11,034	87.7%	100.0%	87.7%	25,472	75.7%	95.7%	73.8%
Huntingdon County	13,859	97.1%	100.0%	97.1%	31,309	75.9%	98.7%	75.3%
Indiana County	31,100	99.6%	100.0%	99.6%	53,401	71.2%	100.0%	71.2%
Jefferson County	16,281	96.4%	100.0%	96.4%	27,360	83.7%	99.7%	83.4%
Juniata County	4,354	98.0%	100.0%	98.0%	20,350	81.8%	99.9%	81.8%
Lackawanna County	175,855	90.4%	100.0%	90.4%	34,938	82.7%	100.0%	82.7%
Lancaster County	425,654	98.7%	100.0%	98.7%	117,903	85.2%	100.0%	85.2%
Lawrence County	50,810	97.2%	100.0%	97.2%	35,374	93.8%	100.0%	93.8%
Lebanon County	102,764	98.8%	100.0%	98.8%	38,550	94.2%	100.0%	94.2%
Lehigh County	338,106	100.0%	100.0%	100.0%	29,994	98.8%	100.0%	98.8%
Luzerne County	253,792	98.7%	100.0%	98.7%	63,854	87.4%	100.0%	87.4%
Lycoming County	71,306	99.5%	100.0%	99.5%	42,358	77.5%	99.2%	76.9%
McKean County	14,976	97.3%	100.0%	97.3%	25,992	79.7%	99.8%	79.7%
Mercer County	59,575	98.0%	100.0%	98.0%	51,108	82.5%	100.0%	82.5%
Mifflin County	22,976	99.8%	100.0%	99.8%	23,246	88.7%	99.3%	88.0%
Monroe County	104,758	99.7%	100.0%	99.7%	64,747	97.8%	100.0%	97.8%
Montgomery County	803,803	98.9%	100.0%	98.9%	24,785	99.3%	100.0%	99.3%
Montour County	8,436	91.8%	100.0%	91.8%	9,804	54.8%	100.0%	54.8%
Northampton County	265,378	100.0%	100.0%	100.0%	39,428	100.0%	100.0%	100.0%
Northumberland County	58,958	92.2%	100.0%	92.2%	32,125	72.1%	100.0%	72.1%
Perry County	5,324	100.0%	100.0%	100.0%	40,815	85.5%	100.0%	85.5%
Philadelphia County	1,584,133	99.1%	100.0%	99.1%				
Pike County	16,431	100.0%	100.0%	100.0%	39,502	98.4%	100.0%	98.4%
Potter County					16,622	69.2%	99.6%	69.2%
Schuylkill County	88,507	95.4%	100.0%	95.4%	53,560	87.7%	100.0%	87.7%

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Snyder County	13,045	84.2%	100.0%	84.2%	27,495	63.4%	100.0%	63.4%
Somerset County	18,964	99.6%	100.0%	99.6%	54,988	77.2%	100.0%	77.2%
Sullivan County					6,071	33.1%	97.5%	32.5%
Susquehanna County	6,081	21.2%	100.0%	21.2%	34,508	58.9%	100.0%	58.9%
Tioga County	3,113	100.0%	100.0%	100.0%	37,650	84.6%	99.6%	84.2%
Union County	24,778	68.4%	100.0%	68.4%	20,005	75.6%	100.0%	75.6%
Venango County	22,754	99.7%	100.0%	99.7%	28,512	83.7%	100.0%	83.7%
Warren County	17,438	94.1%	100.0%	94.1%	22,060	54.6%	99.4%	54.6%
Washington County	143,054	97.9%	100.0%	97.9%	64,292	85.4%	100.0%	85.4%
Wayne County	6,192	95.4%	100.0%	95.4%	45,084	60.4%	99.9%	60.4%
Westmoreland County	258,272	98.4%	100.0%	98.4%	92,339	95.4%	100.0%	95.4%
Wyoming County	4,384	97.4%	100.0%	97.4%	22,662	87.3%	99.8%	87.2%
York County	335,881	98.5%	100.0%	98.5%	112,385	92.4%	100.0%	92.4%
Rhode Island								
Bristol County	48,086	100.0%	100.0%	100.0%	563	100.0%	100.0%	100.0%
Kent County	150,929	98.5%	100.0%	98.5%	12,932	99.6%	100.0%	99.6%
Newport County	72,455	95.8%	100.0%	95.8%	10,087	95.1%	99.9%	95.0%
Providence County	600,528	98.8%	100.0%	98.8%	35,556	99.3%	100.0%	99.3%
Washington County	87,174	98.5%	100.0%	98.5%	39,005	96.0%	100.0%	96.0%
South Carolina								
Abbeville County	5,017	99.4%	100.0%	99.4%	19,524	94.8%	100.0%	94.8%
Aiken County	105,145	70.5%	100.0%	70.5%	64,254	49.2%	100.0%	49.2%
Allendale County	2,804	12.6%	100.0%	12.6%	6,099	15.8%	99.8%	15.8%
Anderson County	123,484	99.7%	100.0%	99.7%	76,998	88.0%	100.0%	88.0%
Bamberg County	5,977	44.7%	100.0%	44.7%	8,298	24.9%	100.0%	24.9%
Barnwell County	3,786	61.0%	100.0%	61.0%	17,326	43.4%	100.0%	43.4%
Beaufort County	147,337	93.5%	100.0%	93.5%	41,378	64.8%	100.0%	64.8%
Berkeley County	146,780	97.4%	100.0%	97.4%	74,284	80.1%	100.0%	80.1%
Calhoun County					14,520	73.9%	100.0%	73.9%
Charleston County	350,878	96.9%	100.0%	96.9%	55,020	77.6%	100.0%	77.6%
Cherokee County	22,158	99.7%	100.0%	99.7%	34,920	79.7%	100.0%	79.7%
Chester County	9,015	98.9%	100.0%	98.9%	23,236	75.7%	100.0%	75.7%
Chesterfield County	11,710	83.0%	100.0%	83.0%	34,044	47.3%	100.0%	47.3%
Clarendon County	4,612	100.0%	100.0%	100.0%	29,088	92.6%	100.0%	92.6%
Colleton County	9,035	99.2%	100.0%	99.2%	28,625	84.0%	100.0%	84.0%
Darlington County	28,237	100.0%	100.0%	100.0%	38,565	80.3%	100.0%	80.3%
Dillon County	9,537	99.3%	100.0%	99.3%	21,062	65.3%	100.0%	65.3%

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Dorchester County	123,046	99.9%	100.0%	99.9%	37,558	66.1%	100.0%	66.1%
Edgefield County	7,107	69.4%	100.0%	69.4%	19,941	66.3%	100.0%	66.3%
Fairfield County	4,881	96.9%	100.0%	96.9%	17,521	56.7%	100.0%	56.7%
Florence County	84,279	100.0%	100.0%	100.0%	53,880	85.5%	100.0%	85.5%
Georgetown County	35,402	100.0%	100.0%	100.0%	26,847	72.7%	100.0%	72.7%
Greenville County	442,712	99.4%	100.0%	99.4%	71,493	91.5%	100.0%	91.5%
Greenwood County	41,901	97.7%	100.0%	97.7%	28,840	80.7%	100.0%	80.7%
Hampton County	4,229	97.0%	100.0%	97.0%	15,122	40.0%	100.0%	40.0%
Horry County	233,583	100.0%	100.0%	100.0%	110,564	97.7%	100.0%	97.7%
Jasper County	8,843	69.9%	100.0%	69.9%	20,125	60.8%	100.0%	60.8%
Kershaw County	27,604	99.5%	100.0%	99.5%	37,986	70.6%	100.0%	70.6%
Lancaster County	44,909	99.8%	100.0%	99.8%	50,467	76.4%	100.0%	76.4%
Laurens County	23,967	99.7%	100.0%	99.7%	43,026	75.3%	100.0%	75.3%
Lee County	3,817	100.0%	100.0%	100.0%	13,325	81.8%	100.0%	81.8%
Lexington County	217,882	99.9%	100.0%	99.9%	77,142	87.7%	100.0%	87.7%
Marion County	12,126	100.0%	100.0%	100.0%	18,913	51.4%	100.0%	51.4%
Marlboro County	10,527	0.0%	100.0%	0.0%	15,871	1.0%	100.0%	1.0%
McCormick County					9,410	40.2%	98.4%	39.4%
Newberry County	12,352	99.4%	100.0%	99.4%	26,168	64.0%	100.0%	64.0%
Oconee County	26,919	88.8%	100.0%	88.8%	51,455	76.1%	100.0%	76.1%
Orangeburg County	29,124	100.0%	100.0%	100.0%	57,810	34.1%	100.0%	34.1%
Pickens County	78,579	96.1%	100.0%	96.1%	46,352	90.4%	99.9%	90.4%
Richland County	372,709	100.0%	100.0%	100.0%	41,867	75.5%	100.0%	75.5%
Saluda County	3,921	96.5%	100.0%	96.5%	16,623	45.5%	100.0%	45.5%
Spartanburg County	225,752	99.7%	100.0%	99.7%	88,124	84.2%	100.0%	84.2%
Sumter County	72,458	100.0%	100.0%	100.0%	34,054	89.9%	100.0%	89.9%
Union County	9,639	99.8%	100.0%	99.8%	17,771	68.5%	100.0%	68.5%
Williamsburg County	5,671	99.9%	100.0%	99.9%	24,935	78.1%	100.0%	78.1%
York County	204,931	99.9%	100.0%	99.9%	69,182	85.8%	100.0%	85.8%
South Dakota								
Aurora County					2,798	73.3%	100.0%	73.3%
Beadle County	12,623	97.8%	100.0%	97.8%	6,245	62.6%	100.0%	62.6%
Bennett County					3,468	90.5%	100.0%	90.5%
Bon Homme County					6,980	66.9%	100.0%	66.9%
Brookings County	23,355	99.9%	100.0%	99.9%	11,848	90.4%	100.0%	90.4%
Brown County	26,692	100.0%	100.0%	100.0%	12,623	100.0%	100.0%	100.0%
Brule County					5,229	100.0%	100.0%	100.0%

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Buffalo County					2,033	100.0%	100.0%	100.0%
Butte County	4,997	99.0%	100.0%	99.0%	5,225	99.2%	100.0%	99.2%
Campbell County					1,377	100.0%	100.0%	100.0%
Charles Mix County					9,338	35.2%	100.0%	35.2%
Clark County					3,736	88.9%	100.0%	88.9%
Clay County	10,268	88.6%	100.0%	88.6%	3,773	60.9%	100.0%	60.9%
Codington County	21,328	99.9%	100.0%	99.9%	6,687	61.3%	100.0%	61.3%
Corson County					4,165	81.0%	90.6%	74.2%
Custer County					8,726	54.4%	99.6%	54.1%
Davison County	14,970	99.9%	100.0%	99.9%	4,819	80.8%	100.0%	80.8%
Day County					5,505	90.2%	100.0%	90.2%
Deuel County					4,336	97.6%	100.0%	97.6%
Dewey County	1,981	92.7%	100.0%	92.7%	3,921	62.5%	100.0%	62.5%
Douglas County					2,935	81.0%	100.0%	81.0%
Edmunds County					3,875	100.0%	100.0%	100.0%
Fall River County	3,259	99.8%	100.0%	99.8%	3,499	81.7%	99.5%	81.7%
Faulk County					2,330	100.0%	100.0%	100.0%
Grant County	3,058	100.0%	100.0%	100.0%	4,086	55.9%	100.0%	55.9%
Gregory County					4,212	91.7%	99.7%	91.3%
Haakon County					1,918	92.1%	99.3%	91.4%
Hamlin County					6,110	69.8%	100.0%	69.8%
Hand County					3,262	82.9%	100.0%	82.9%
Hanson County					3,376	85.2%	100.0%	85.2%
Harding County					1,249	100.0%	99.7%	99.7%
Hughes County	12,858	99.9%	100.0%	99.9%	4,792	73.7%	100.0%	73.7%
Hutchinson County					7,380	99.7%	100.0%	99.7%
Hyde County					1,282	100.0%	100.0%	100.0%
Jackson County					3,307	73.0%	100.0%	73.0%
Jerauld County					2,043	100.0%	100.0%	100.0%
Jones County					928	50.3%	100.0%	50.3%
Kingsbury County					4,919	67.4%	100.0%	67.4%
Lake County	6,517	100.0%	100.0%	100.0%	6,532	99.4%	100.0%	99.4%
Lawrence County	15,452	99.9%	100.0%	99.9%	10,289	82.6%	99.8%	82.6%
Lincoln County	35,843	98.9%	100.0%	98.9%	22,926	77.6%	100.0%	77.6%
Lyman County					3,821	78.7%	99.9%	78.6%
Marshall County					5,104	96.7%	100.0%	96.7%
McCook County					5,545	80.6%	100.0%	80.6%

County or County Equivalent	Urban Areas				Rural Areas			
	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile
McPherson County					2,407	100.0%	100.0%	100.0%
Meade County	16,502	99.6%	100.0%	99.6%	11,790	100.0%	99.8%	99.8%
Mellette County					2,042	57.9%	100.0%	57.9%
Miner County					2,213	100.0%	100.0%	100.0%
Minnehaha County	159,862	99.2%	100.0%	99.2%	32,969	92.3%	100.0%	92.3%
Moody County					6,579	74.5%	100.0%	74.5%
Oglala Lakota County	2,750	97.2%	100.0%	97.2%	11,405	65.1%	100.0%	65.1%
Pennington County	84,211	100.0%	100.0%	100.0%	27,518	83.1%	98.9%	83.1%
Perkins County					2,922	98.9%	99.3%	98.2%
Potter County					2,207	100.0%	100.0%	100.0%
Roberts County					10,446	84.0%	100.0%	84.0%
Sanborn County					2,429	100.0%	100.0%	100.0%
Spink County					6,494	99.9%	100.0%	99.9%
Stanley County	1,691	99.9%	100.0%	99.9%	1,331	85.5%	100.0%	85.5%
Sully County					1,392	100.0%	100.0%	100.0%
Todd County					10,281	63.8%	99.4%	63.8%
Tripp County	2,702	100.0%	100.0%	100.0%	2,776	79.8%	100.0%	79.8%
Turner County					8,419	79.2%	100.0%	79.2%
Union County	5,729	98.6%	100.0%	98.6%	9,869	82.2%	100.0%	82.2%
Walworth County	3,355	100.0%	100.0%	100.0%	2,231	100.0%	100.0%	100.0%
Yankton County	14,678	99.9%	100.0%	99.9%	8,187	75.8%	100.0%	75.8%
Ziebach County	721	100.0%	100.0%	100.0%	2,021	97.1%	95.7%	92.9%
Tennessee								
Anderson County	49,373	97.4%	100.0%	97.4%	27,109	95.5%	96.7%	92.2%
Bedford County	21,131	100.0%	100.0%	100.0%	27,901	94.5%	100.0%	94.5%
Benton County	3,418	99.9%	100.0%	99.9%	12,766	63.7%	99.5%	63.7%
Bledsoe County					14,755	40.5%	100.0%	40.5%
Blount County	87,717	99.9%	100.0%	99.9%	43,632	94.3%	99.2%	93.6%
Bradley County	71,316	99.8%	100.0%	99.8%	35,411	93.5%	100.0%	93.5%
Campbell County	17,909	98.6%	100.0%	98.6%	21,674	75.2%	98.3%	74.4%
Cannon County	2,658	100.0%	100.0%	100.0%	11,800	99.6%	100.0%	99.6%
Carroll County	4,390	100.0%	100.0%	100.0%	23,629	63.7%	100.0%	63.7%
Carter County	33,400	99.8%	100.0%	99.8%	22,951	93.9%	98.1%	92.6%
Cheatham County	6,877	99.4%	100.0%	99.4%	33,562	92.5%	100.0%	92.5%
Chester County	5,751	100.0%	100.0%	100.0%	11,525	24.8%	100.0%	24.8%
Claiborne County	8,738	98.4%	100.0%	98.4%	23,016	95.0%	99.9%	94.9%
Clay County					7,717	95.4%	86.0%	81.5%

County or County Equivalent	Urban Areas				Rural Areas			
	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile
Cocke County	11,533	99.6%	100.0%	99.6%	24,241	64.1%	94.3%	64.1%
Coffee County	28,999	99.9%	100.0%	99.9%	26,698	82.3%	100.0%	82.3%
Crockett County	4,448	100.0%	100.0%	100.0%	9,880	77.4%	100.0%	77.4%
Cumberland County	22,879	98.3%	100.0%	98.3%	36,793	32.3%	99.9%	32.3%
Davidson County	667,305	97.5%	100.0%	97.5%	25,281	97.3%	100.0%	97.3%
DeKalb County	4,207	100.0%	100.0%	100.0%	15,930	98.3%	100.0%	98.3%
Decatur County					11,706	65.5%	100.0%	65.5%
Dickson County	17,051	97.9%	100.0%	97.9%	36,393	69.7%	100.0%	69.7%
Dyer County	21,184	98.9%	100.0%	98.9%	16,136	80.5%	100.0%	80.5%
Fayette County	8,293	99.6%	100.0%	99.6%	32,214	74.9%	100.0%	74.9%
Fentress County					18,217	98.9%	96.8%	95.7%
Franklin County	12,576	100.0%	100.0%	100.0%	29,314	96.3%	98.5%	95.7%
Gibson County	25,028	85.6%	100.0%	85.6%	24,017	74.0%	100.0%	74.0%
Giles County	7,641	100.0%	100.0%	100.0%	21,862	89.3%	100.0%	89.3%
Grainger County					23,145	65.6%	100.0%	65.6%
Greene County	23,563	100.0%	100.0%	100.0%	45,524	100.0%	100.0%	100.0%
Grundy County					13,346	79.6%	99.6%	79.6%
Hamblen County	50,138	100.0%	100.0%	100.0%	14,430	100.0%	100.0%	100.0%
Hamilton County	326,000	99.2%	100.0%	99.2%	38,283	96.0%	100.0%	96.0%
Hancock County					6,549	64.1%	91.4%	57.6%
Hardeman County	5,144	97.7%	100.0%	97.7%	20,076	42.4%	100.0%	42.4%
Hardin County	7,933	99.9%	100.0%	99.9%	17,843	49.1%	100.0%	49.1%
Hawkins County	23,662	98.6%	100.0%	98.6%	32,868	58.0%	99.6%	58.0%
Haywood County	8,494	100.0%	100.0%	100.0%	8,841	26.6%	100.0%	26.6%
Henderson County	6,526	100.0%	100.0%	100.0%	21,321	53.0%	100.0%	53.0%
Henry County	10,623	99.9%	100.0%	99.9%	21,735	79.9%	100.0%	79.9%
Hickman County					25,061	61.9%	99.4%	61.8%
Houston County					8,262	76.6%	97.4%	74.4%
Humphreys County	3,206	94.1%	100.0%	94.1%	15,280	48.7%	99.8%	48.6%
Jackson County					11,758	85.0%	91.4%	80.0%
Jefferson County	21,276	98.3%	100.0%	98.3%	32,736	61.1%	100.0%	61.1%
Johnson County	2,652	99.8%	100.0%	99.8%	15,126	92.4%	97.6%	91.2%
Knox County	412,513	98.7%	100.0%	98.7%	52,772	95.7%	100.0%	95.7%
Lake County					7,411	62.9%	100.0%	62.9%
Lauderdale County	10,691	100.0%	100.0%	100.0%	15,130	60.7%	100.0%	60.7%
Lawrence County	10,386	100.0%	100.0%	100.0%	33,345	93.1%	99.9%	93.0%
Lewis County	3,600	100.0%	100.0%	100.0%	8,485	83.8%	99.0%	82.9%

County or County Equivalent	Urban Areas				Rural Areas			
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Lincoln County	9,332	100.0%	100.0%	100.0%	24,774	95.3%	100.0%	95.3%
Loudon County	30,591	99.6%	100.0%	99.6%	22,462	84.7%	100.0%	84.7%
Macon County	4,856	100.0%	100.0%	100.0%	19,409	93.3%	95.1%	88.4%
Madison County	71,928	99.9%	100.0%	99.9%	25,677	80.4%	100.0%	80.4%
Marion County	6,538	99.3%	100.0%	99.3%	22,037	80.3%	99.3%	79.9%
Marshall County	11,015	99.9%	100.0%	99.9%	22,664	87.2%	100.0%	87.2%
Maury County	52,685	100.0%	100.0%	100.0%	41,652	84.1%	100.0%	84.1%
McMinn County	21,076	98.9%	100.0%	98.9%	32,208	66.3%	99.9%	66.3%
McNairy County	3,759	98.0%	100.0%	98.0%	22,073	43.1%	100.0%	43.1%
Meigs County					12,304	55.5%	100.0%	55.5%
Monroe County	10,950	99.0%	100.0%	99.0%	35,406	68.2%	96.0%	66.9%
Montgomery County	159,353	96.5%	100.0%	96.5%	46,585	78.4%	100.0%	78.4%
Moore County	8	100.0%	100.0%	100.0%	6,403	98.8%	100.0%	98.8%
Morgan County	27	100.0%	100.0%	100.0%	21,552	100.0%	98.9%	98.9%
Obion County	11,232	98.9%	100.0%	98.9%	19,035	55.8%	100.0%	55.8%
Overton County	3,503	99.6%	100.0%	99.6%	18,565	73.9%	98.4%	72.4%
Perry County					8,064	61.8%	99.7%	61.6%
Pickett County					5,082	95.0%	95.6%	91.5%
Polk County					16,898	83.0%	92.5%	77.2%
Putnam County	50,263	98.9%	100.0%	98.9%	28,577	84.8%	100.0%	84.8%
Rhea County	10,361	100.0%	100.0%	100.0%	22,683	76.7%	99.9%	76.7%
Roane County	25,551	99.2%	100.0%	99.2%	27,589	85.9%	100.0%	85.9%
Robertson County	32,546	99.1%	100.0%	99.1%	38,445	74.5%	100.0%	74.5%
Rutherford County	262,393	98.9%	100.0%	98.9%	62,470	92.1%	100.0%	92.1%
Scott County	4,275	100.0%	100.0%	100.0%	17,764	99.9%	97.6%	97.5%
Sequatchie County	3,831	73.5%	100.0%	73.5%	11,045	57.5%	99.3%	56.8%
Sevier County	41,009	99.5%	100.0%	99.5%	56,882	86.1%	99.9%	86.0%
Shelby County	909,387	98.9%	100.0%	98.9%	26,377	80.9%	100.0%	80.9%
Smith County	3,374	100.0%	100.0%	100.0%	16,567	83.5%	95.8%	79.3%
Stewart County					13,561	76.0%	99.8%	76.0%
Sullivan County	117,248	100.0%	100.0%	100.0%	40,419	100.0%	100.0%	100.0%
Sumner County	130,907	98.5%	100.0%	98.5%	56,190	96.3%	100.0%	96.3%
Tipton County	27,603	98.9%	100.0%	98.9%	33,978	84.3%	100.0%	84.3%
Trousdale County					11,010	82.3%	100.0%	82.3%
Unicoi County	9,939	100.0%	100.0%	100.0%	7,822	97.9%	98.8%	97.4%
Union County					19,688	80.9%	100.0%	80.9%
Van Buren County					5,765	48.8%	99.7%	48.8%

County or County Equivalent	Urban Areas				Rural Areas			
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Warren County	15,572	99.5%	100.0%	99.5%	25,304	70.7%	100.0%	70.7%
Washington County	94,236	99.2%	100.0%	99.2%	34,371	93.8%	100.0%	93.8%
Wayne County					16,558	61.4%	99.7%	61.3%
Weakley County	9,925	96.4%	100.0%	96.4%	23,490	44.2%	100.0%	44.2%
White County	5,883	99.9%	100.0%	99.9%	21,222	57.9%	100.0%	57.9%
Williamson County	177,160	97.3%	100.0%	97.3%	54,563	80.1%	100.0%	80.1%
Wilson County	81,506	99.7%	100.0%	99.7%	59,112	89.2%	100.0%	89.2%
Texas								
Anderson County	19,170	88.9%	100.0%	88.9%	38,885	38.7%	99.9%	38.6%
Andrews County	12,696	100.0%	100.0%	100.0%	5,432	39.9%	100.0%	39.9%
Angelina County	49,287	98.6%	100.0%	98.6%	37,805	73.5%	100.0%	73.5%
Aransas County	17,039	99.8%	100.0%	99.8%	6,753	86.1%	100.0%	86.1%
Archer County	875	100.0%	100.0%	100.0%	7,911	99.9%	100.0%	99.9%
Armstrong County					1,892	59.1%	98.8%	57.9%
Atascosa County	18,822	99.7%	100.0%	99.7%	31,486	92.6%	100.0%	92.6%
Austin County	9,737	99.5%	100.0%	99.5%	20,252	39.8%	100.0%	39.8%
Bailey County	4,701	97.1%	100.0%	97.1%	2,326	27.7%	100.0%	27.7%
Bandera County					22,824	72.5%	99.7%	72.4%
Bastrop County	29,890	100.0%	100.0%	100.0%	57,081	100.0%	100.0%	100.0%
Baylor County					3,582	99.6%	100.0%	99.6%
Bee County	18,230	100.0%	100.0%	100.0%	14,357	96.6%	100.0%	96.6%
Bell County	288,763	99.8%	100.0%	99.8%	66,877	83.1%	100.0%	83.1%
Bexar County	1,868,102	100.0%	100.0%	100.0%	117,936	84.6%	100.0%	84.6%
Blanco County					11,702	52.2%	100.0%	52.2%
Borden County					648	31.0%	100.0%	31.0%
Bosque County	3,424	100.0%	100.0%	100.0%	15,265	100.0%	100.0%	100.0%
Bowie County	60,671	99.1%	100.0%	99.1%	33,652	78.0%	100.0%	78.0%
Brazoria County	271,543	94.6%	100.0%	94.6%	98,650	48.5%	100.0%	48.5%
Brazos County	190,981	96.8%	100.0%	96.8%	35,738	73.4%	100.0%	73.4%
Brewster County	5,794	94.6%	100.0%	94.6%	3,473	34.1%	61.3%	20.2%
Briscoe County					1,516	81.3%	99.7%	81.3%
Brooks County	4,793	100.0%	100.0%	100.0%	2,321	99.0%	100.0%	99.0%
Brown County	22,141	99.9%	100.0%	99.9%	15,783	51.2%	100.0%	51.2%
Burleson County	4,050	100.0%	100.0%	100.0%	14,338	100.0%	100.0%	100.0%
Burnet County	20,075	82.6%	100.0%	82.6%	27,467	56.9%	100.0%	56.9%
Caldwell County	23,116	100.0%	100.0%	100.0%	20,131	100.0%	100.0%	100.0%
Calhoun County	11,627	99.3%	100.0%	99.3%	9,934	72.9%	100.0%	72.9%

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Callahan County	3,773	64.7%	100.0%	64.7%	10,221	66.4%	100.0%	66.4%
Cameron County	384,273	100.0%	99.9%	99.9%	39,635	100.0%	100.0%	100.0%
Camp County	4,879	98.9%	100.0%	98.9%	8,152	22.8%	100.0%	22.8%
Carson County	301	51.8%	100.0%	51.8%	5,704	64.2%	100.0%	64.2%
Cass County	7,553	99.3%	100.0%	99.3%	22,566	38.4%	100.0%	38.4%
Castro County	3,753	68.3%	100.0%	68.3%	3,912	51.7%	100.0%	51.7%
Chambers County	20,972	76.0%	100.0%	76.0%	21,481	67.6%	100.0%	67.6%
Cherokee County	18,960	76.2%	100.0%	76.2%	33,632	27.6%	100.0%	27.6%
Childress County	4,715	99.9%	100.0%	99.9%	2,574	80.4%	100.0%	80.4%
Clay County	2,711	100.0%	100.0%	100.0%	7,745	88.0%	100.0%	88.0%
Cochran County					2,836	67.5%	100.0%	67.5%
Coke County					3,370	4.6%	99.9%	4.6%
Coleman County	3,964	0.0%	100.0%	0.0%	4,433	53.9%	100.0%	53.9%
Collin County	924,348	99.6%	100.0%	99.6%	80,734	95.9%	100.0%	95.9%
Collingsworth County					2,962	59.7%	100.0%	59.7%
Colorado County	7,710	100.0%	100.0%	100.0%	13,507	65.5%	100.0%	65.5%
Comal County	71,852	100.0%	100.0%	100.0%	76,485	98.3%	100.0%	98.3%
Comanche County	3,814	99.2%	100.0%	99.2%	9,720	86.9%	100.0%	86.9%
Concho County					4,275	24.8%	100.0%	24.8%
Cooke County	15,946	100.0%	100.0%	100.0%	24,628	99.9%	100.0%	99.9%
Coryell County	59,452	100.0%	100.0%	100.0%	15,356	95.7%	100.0%	95.7%
Cottle County					1,389	86.1%	100.0%	86.1%
Crane County	3,745	1.7%	100.0%	1.7%	1,047	13.5%	100.0%	13.5%
Crockett County	2,706	1.2%	100.0%	1.2%	793	0.1%	99.4%	0.0%
Crosby County					5,779	69.6%	100.0%	69.6%
Culberson County					2,204	86.3%	100.0%	86.3%
Dallam County	5,170	99.2%	100.0%	99.2%	2,030	89.0%	100.0%	89.0%
Dallas County	2,611,456	100.0%	100.0%	100.0%	26,305	99.9%	100.0%	99.9%
Dawson County	10,128	71.0%	100.0%	71.0%	2,491	68.2%	100.0%	68.2%
DeWitt County	9,599	100.0%	100.0%	100.0%	10,588	78.7%	100.0%	78.7%
Deaf Smith County	15,262	99.9%	100.0%	99.9%	3,498	43.7%	100.0%	43.7%
Delta County					5,349	20.7%	100.0%	20.7%
Denton County	749,795	99.8%	100.0%	99.8%	109,262	99.9%	100.0%	99.9%
Dickens County					2,249	92.8%	100.0%	92.8%
Dimmit County	5,582	100.0%	100.0%	100.0%	4,726	53.0%	100.0%	53.0%
Donley County					3,319	43.0%	100.0%	43.0%
Duval County	3,426	100.0%	100.0%	100.0%	7,786	65.1%	100.0%	65.1%

County or County Equivalent	Urban Areas				Rural Areas			
	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile
Eastland County	7,119	100.0%	100.0%	100.0%	11,203	99.6%	100.0%	99.6%
Ector County	137,329	99.6%	100.0%	99.6%	24,794	64.8%	100.0%	64.8%
Edwards County					1,928	46.8%	99.6%	46.8%
El Paso County	808,380	99.7%	100.0%	99.7%	32,378	65.6%	100.0%	65.6%
Ellis County	113,560	100.0%	100.0%	100.0%	65,869	100.0%	100.0%	100.0%
Erath County	20,797	100.0%	100.0%	100.0%	21,648	100.0%	100.0%	100.0%
Falls County	5,441	100.0%	100.0%	100.0%	11,894	95.0%	100.0%	95.0%
Fannin County	9,849	99.6%	100.0%	99.6%	25,431	64.6%	100.0%	64.6%
Fayette County	8,121	95.3%	100.0%	95.3%	17,228	85.2%	100.0%	85.2%
Fisher County					3,839	8.2%	100.0%	8.2%
Floyd County	2,663	99.8%	100.0%	99.8%	3,174	6.7%	100.0%	6.7%
Foard County					1,200	99.3%	100.0%	99.3%
Fort Bend County	695,980	95.3%	100.0%	95.3%	91,869	69.9%	100.0%	69.9%
Franklin County	3,279	100.0%	100.0%	100.0%	7,487	62.4%	100.0%	62.4%
Freestone County	6,590	95.7%	100.0%	95.7%	13,218	69.5%	100.0%	69.5%
Frio County	13,614	100.0%	100.0%	100.0%	6,201	95.9%	100.0%	95.9%
Gaines County	6,739	98.3%	100.0%	98.3%	14,161	59.3%	100.0%	59.3%
Galveston County	310,103	96.0%	100.0%	96.0%	27,787	68.7%	99.2%	68.7%
Garza County	4,899	100.0%	100.0%	100.0%	1,679	60.6%	100.0%	60.6%
Gillespie County	11,399	100.0%	100.0%	100.0%	15,405	91.7%	100.0%	91.7%
Glasscock County					1,388	76.5%	100.0%	76.5%
Goliad County					7,584	65.8%	100.0%	65.8%
Gonzales County	6,965	100.0%	100.0%	100.0%	13,861	99.6%	100.0%	99.6%
Gray County	17,687	99.1%	100.0%	99.1%	4,208	31.8%	100.0%	31.8%
Grayson County	72,808	100.0%	100.0%	100.0%	61,180	99.9%	100.0%	99.9%
Gregg County	106,522	96.3%	100.0%	96.3%	17,185	67.5%	100.0%	67.5%
Grimes County	8,487	80.3%	100.0%	80.3%	19,873	37.8%	100.0%	37.8%
Guadalupe County	112,281	100.0%	100.0%	100.0%	51,413	100.0%	100.0%	100.0%
Hale County	25,356	98.7%	100.0%	98.7%	8,474	59.0%	100.0%	59.0%
Hall County					3,028	56.5%	100.0%	56.5%
Hamilton County	2,818	100.0%	100.0%	100.0%	5,666	96.0%	100.0%	96.0%
Hansford County	3,169	100.0%	100.0%	100.0%	2,294	63.5%	99.8%	63.5%
Hardeman County					3,922	12.7%	100.0%	12.7%
Hardin County	26,937	97.4%	100.0%	97.4%	30,270	61.8%	100.0%	61.8%
Harris County	4,618,455	94.5%	100.0%	94.5%	80,157	88.2%	100.0%	88.2%
Harrison County	29,144	99.5%	100.0%	99.5%	37,582	61.9%	100.0%	61.9%
Hartley County	2,333	99.8%	100.0%	99.8%	3,286	81.3%	100.0%	81.3%

County or County Equivalent	Urban Areas				Rural Areas			
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Haskell County	2,791	100.0%	100.0%	100.0%	3,022	92.1%	100.0%	92.1%
Hays County	138,391	99.3%	100.0%	99.3%	84,173	90.1%	100.0%	90.1%
Hemphill County	2,479	0.0%	100.0%	0.0%	1,346	3.4%	99.8%	3.4%
Henderson County	32,126	99.8%	100.0%	99.8%	50,168	72.6%	100.0%	72.6%
Hidalgo County	808,618	100.0%	100.0%	100.0%	57,318	95.5%	100.0%	95.5%
Hill County	8,213	100.0%	100.0%	100.0%	28,138	100.0%	100.0%	100.0%
Hockley County	13,252	75.6%	100.0%	75.6%	9,728	59.5%	100.0%	59.5%
Hood County	37,988	100.0%	100.0%	100.0%	22,547	100.0%	100.0%	100.0%
Hopkins County	14,524	100.0%	100.0%	100.0%	22,286	38.5%	100.0%	38.5%
Houston County	5,718	73.2%	100.0%	73.2%	17,451	55.5%	99.6%	55.4%
Howard County	27,640	99.9%	100.0%	99.9%	8,819	73.2%	100.0%	73.2%
Hudspeth County					4,795	64.3%	98.8%	63.8%
Hunt County	39,362	86.5%	100.0%	86.5%	57,129	58.8%	100.0%	58.8%
Hutchinson County	16,447	97.7%	100.0%	97.7%	4,751	65.8%	100.0%	65.8%
Irion County					1,522	0.0%	99.5%	0.0%
Jack County	4,051	100.0%	100.0%	100.0%	4,792	99.6%	100.0%	99.6%
Jackson County	5,459	98.2%	100.0%	98.2%	9,415	54.8%	100.0%	54.8%
Jasper County	7,668	98.6%	100.0%	98.6%	28,204	18.0%	100.0%	18.0%
Jeff Davis County					2,252	28.5%	91.8%	28.5%
Jefferson County	232,520	97.4%	100.0%	97.4%	22,481	58.4%	100.0%	58.4%
Jim Hogg County	4,056	100.0%	100.0%	100.0%	1,192	88.8%	99.9%	88.8%
Jim Wells County	24,053	100.0%	100.0%	100.0%	16,769	100.0%	100.0%	100.0%
Johnson County	102,592	100.0%	100.0%	100.0%	68,768	100.0%	100.0%	100.0%
Jones County	3,027	0.0%	100.0%	0.0%	16,790	52.8%	100.0%	52.8%
Karnes County	9,163	100.0%	100.0%	100.0%	6,486	100.0%	100.0%	100.0%
Kaufman County	57,759	100.0%	100.0%	100.0%	70,855	89.5%	100.0%	89.5%
Kendall County	15,964	99.7%	100.0%	99.7%	29,677	88.0%	100.0%	88.0%
Kenedy County					441	21.1%	100.0%	21.1%
Kent County					726	83.7%	100.0%	83.7%
Kerr County	29,707	99.7%	100.0%	99.7%	22,698	90.5%	99.9%	90.5%
Kimble County	2,399	97.3%	100.0%	97.3%	1,963	7.1%	100.0%	7.1%
King County					277	49.5%	99.6%	49.5%
Kinney County	2,791	100.0%	100.0%	100.0%	976	82.2%	99.6%	81.9%
Kleberg County	24,948	100.0%	100.0%	100.0%	6,181	84.5%	100.0%	84.5%
Knox County					3,653	99.9%	100.0%	99.9%
La Salle County	3,687	100.0%	100.0%	100.0%	3,844	48.3%	100.0%	48.3%
Lamar County	26,053	100.0%	100.0%	100.0%	23,675	98.9%	100.0%	98.9%

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Lamb County	5,268	82.6%	100.0%	82.6%	7,890	70.9%	100.0%	70.9%
Lampasas County	6,553	100.0%	100.0%	100.0%	14,676	99.7%	100.0%	99.7%
Lavaca County	3,620	100.0%	100.0%	100.0%	16,490	88.4%	100.0%	88.4%
Lee County	5,062	100.0%	100.0%	100.0%	12,082	100.0%	100.0%	100.0%
Leon County					17,270	59.2%	98.6%	58.1%
Liberty County	29,889	74.6%	100.0%	74.6%	56,434	48.0%	100.0%	48.0%
Limestone County	10,479	99.3%	100.0%	99.3%	13,040	57.3%	100.0%	57.3%
Lipscomb County					3,355	74.9%	100.0%	74.9%
Live Oak County					12,166	100.0%	100.0%	100.0%
Llano County	11,036	6.1%	100.0%	6.1%	10,610	5.6%	100.0%	5.6%
Loving County					152	19.7%	100.0%	19.7%
Lubbock County	266,455	97.3%	100.0%	97.3%	40,956	83.9%	100.0%	83.9%
Lynn County	2,488	79.0%	100.0%	79.0%	3,389	81.6%	100.0%	81.6%
Madison County	4,573	2.0%	100.0%	2.0%	9,849	22.5%	100.0%	22.5%
Marion County					9,928	60.4%	100.0%	60.4%
Martin County					5,753	81.8%	100.0%	81.8%
Mason County					4,280	68.6%	100.0%	68.6%
Matagorda County	21,861	97.3%	100.0%	97.3%	14,691	33.7%	100.0%	33.7%
Maverick County	50,331	100.0%	100.0%	100.0%	8,154	58.7%	100.0%	58.7%
McCulloch County	5,067	0.1%	100.0%	0.1%	2,920	8.2%	100.0%	8.2%
McLennan County	191,985	100.0%	100.0%	100.0%	62,616	100.0%	100.0%	100.0%
McMullen County					749	98.3%	100.0%	98.3%
Medina County	18,351	90.6%	100.0%	90.6%	32,568	68.7%	100.0%	68.7%
Menard County					2,139	2.6%	100.0%	2.6%
Midland County	145,483	99.8%	100.0%	99.8%	27,095	95.4%	100.0%	95.4%
Milam County	10,620	100.0%	100.0%	100.0%	14,511	100.0%	100.0%	100.0%
Mills County					4,921	89.9%	100.0%	89.9%
Mitchell County	4,877	53.3%	100.0%	53.3%	3,268	50.8%	100.0%	50.8%
Montague County	7,821	100.0%	100.0%	100.0%	11,775	97.5%	100.0%	97.5%
Montgomery County	438,870	96.3%	100.0%	96.3%	152,049	84.6%	100.0%	84.6%
Moore County	17,371	92.8%	100.0%	92.8%	4,114	76.0%	100.0%	76.0%
Morris County	2,758	99.6%	100.0%	99.6%	9,581	60.7%	100.0%	60.7%
Motley County					1,234	89.6%	99.8%	89.6%
Nacogdoches County	34,533	100.0%	100.0%	100.0%	31,178	64.4%	100.0%	64.4%
Navarro County	22,935	100.0%	100.0%	100.0%	26,629	99.9%	100.0%	99.9%
Newton County					13,746	26.7%	100.0%	26.7%
Nolan County	9,845	100.0%	100.0%	100.0%	4,906	33.3%	100.0%	33.3%

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Nueces County	334,201	99.8%	100.0%	99.8%	28,063	95.2%	100.0%	95.2%
Ochiltree County	8,206	100.0%	100.0%	100.0%	1,741	30.0%	100.0%	30.0%
Oldham County					2,131	52.8%	100.0%	52.8%
Orange County	54,324	99.3%	100.0%	99.3%	29,248	68.4%	100.0%	68.4%
Palo Pinto County	13,964	100.0%	100.0%	100.0%	14,911	100.0%	100.0%	100.0%
Panola County	6,038	99.8%	100.0%	99.8%	17,110	33.5%	100.0%	33.5%
Parker County	58,212	100.0%	100.0%	100.0%	80,158	100.0%	100.0%	100.0%
Parmer County	3,750	46.7%	100.0%	46.7%	6,114	55.1%	100.0%	55.1%
Pecos County	9,193	89.5%	100.0%	89.5%	6,480	46.6%	99.5%	46.5%
Polk County	10,847	51.5%	100.0%	51.5%	39,184	50.3%	100.0%	50.3%
Potter County	108,418	99.7%	100.0%	99.7%	11,230	69.5%	100.0%	69.5%
Presidio County	3,945	23.0%	100.0%	23.0%	3,003	41.0%	91.3%	39.8%
Rains County	802	0.0%	100.0%	0.0%	11,357	65.7%	100.0%	65.7%
Randall County	112,000	100.0%	100.0%	100.0%	24,258	82.2%	100.0%	82.2%
Reagan County	2,867	0.0%	100.0%	0.0%	874	7.0%	100.0%	7.0%
Real County					3,478	73.4%	97.8%	72.2%
Red River County	2,807	100.0%	100.0%	100.0%	9,368	90.8%	100.0%	90.8%
Reeves County	12,097	68.5%	100.0%	68.5%	3,598	62.6%	100.0%	62.6%
Refugio County	2,800	100.0%	100.0%	100.0%	4,232	57.9%	100.0%	57.9%
Roberts County					903	66.6%	100.0%	66.6%
Robertson County	4,181	73.6%	100.0%	73.6%	13,102	45.9%	100.0%	45.9%
Rockwall County	79,727	99.8%	100.0%	99.8%	20,914	90.4%	100.0%	90.4%
Runnels County	5,895	100.0%	100.0%	100.0%	4,339	44.8%	100.0%	44.8%
Rusk County	18,038	99.8%	100.0%	99.8%	36,408	36.6%	100.0%	36.6%
Sabine County					10,589	63.2%	99.8%	63.1%
San Augustine County					8,232	19.4%	100.0%	19.4%
San Jacinto County					28,719	33.5%	100.0%	33.5%
San Patricio County	52,738	99.5%	100.0%	99.5%	14,155	98.9%	100.0%	98.9%
San Saba County	2,801	100.0%	100.0%	100.0%	3,253	49.4%	100.0%	49.4%
Schleicher County					2,895	0.0%	100.0%	0.0%
Scurry County	11,244	99.8%	100.0%	99.8%	5,622	39.3%	100.0%	39.3%
Shackelford County					3,253	20.2%	100.0%	20.2%
Shelby County	5,029	2.3%	100.0%	2.3%	20,389	16.8%	99.7%	16.8%
Sherman County					3,079	42.5%	100.0%	42.5%
Smith County	154,818	99.9%	100.0%	99.9%	75,403	75.0%	100.0%	75.0%
Somervell County					9,016	100.0%	100.0%	100.0%
Starr County	47,603	99.7%	100.0%	99.7%	16,922	75.3%	100.0%	75.3%

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Stephens County	5,628	100.0%	100.0%	100.0%	3,805	99.6%	100.0%	99.6%
Sterling County					1,311	0.0%	100.0%	0.0%
Stonewall County					1,362	79.7%	100.0%	79.7%
Sutton County	2,777	96.2%	100.0%	96.2%	981	12.3%	99.3%	12.3%
Swisher County	4,385	91.8%	100.0%	91.8%	3,077	74.5%	100.0%	74.5%
Tarrant County	2,050,734	99.9%	100.0%	99.9%	34,190	100.0%	100.0%	100.0%
Taylor County	113,585	99.9%	100.0%	99.9%	24,055	81.9%	100.0%	81.9%
Terrell County					823	71.4%	95.7%	71.0%
Terry County	9,010	76.5%	100.0%	76.5%	3,277	78.4%	100.0%	78.4%
Throckmorton County					1,515	63.8%	100.0%	63.8%
Titus County	16,136	98.6%	100.0%	98.6%	16,897	37.2%	100.0%	37.2%
Tom Green County	96,100	100.0%	100.0%	100.0%	22,089	41.9%	100.0%	41.9%
Travis County	1,150,870	100.0%	100.0%	100.0%	97,858	97.9%	100.0%	97.9%
Trinity County	3,368	73.8%	100.0%	73.8%	11,372	62.1%	100.0%	62.1%
Tyler County	4,684	99.4%	100.0%	99.4%	17,012	21.0%	100.0%	21.0%
Upshur County	8,437	95.3%	100.0%	95.3%	32,823	89.4%	100.0%	89.4%
Upton County					3,671	10.7%	100.0%	10.7%
Uvalde County	17,910	100.0%	100.0%	100.0%	8,936	95.0%	100.0%	95.0%
Val Verde County	43,750	100.0%	100.0%	100.0%	5,458	77.5%	99.5%	77.5%
Van Zandt County	13,574	72.2%	100.0%	72.2%	42,445	21.6%	100.0%	21.6%
Victoria County	65,362	99.6%	100.0%	99.6%	26,673	29.0%	100.0%	29.0%
Walker County	38,170	99.9%	100.0%	99.9%	34,310	50.6%	100.0%	50.6%
Waller County	19,071	80.6%	100.0%	80.6%	34,053	56.6%	100.0%	56.6%
Ward County	7,610	43.6%	100.0%	43.6%	4,110	50.3%	100.0%	50.3%
Washington County	15,865	98.0%	100.0%	98.0%	19,243	53.0%	100.0%	53.0%
Webb County	256,266	100.0%	100.0%	100.0%	19,644	37.1%	100.0%	37.1%
Wharton County	20,383	99.2%	100.0%	99.2%	21,236	34.7%	100.0%	34.7%
Wheeler County					5,191	59.6%	100.0%	59.6%
Wichita County	117,923	98.1%	100.0%	98.1%	14,141	96.2%	100.0%	96.2%
Wilbarger County	9,807	100.0%	100.0%	100.0%	3,012	96.2%	100.0%	96.2%
Willacy County	13,985	100.0%	100.0%	100.0%	7,530	100.0%	100.0%	100.0%
Williamson County	453,414	99.8%	100.0%	99.8%	113,288	72.0%	100.0%	72.0%
Wilson County	6,463	100.0%	100.0%	100.0%	43,758	100.0%	100.0%	100.0%
Winkler County	5,548	30.5%	100.0%	30.5%	2,172	40.9%	100.0%	40.9%
Wise County	17,748	100.0%	100.0%	100.0%	50,553	100.0%	99.9%	99.9%
Wood County	11,310	95.3%	100.0%	95.3%	33,819	61.0%	100.0%	61.0%
Yoakum County	4,921	99.8%	100.0%	99.8%	3,670	39.9%	100.0%	39.9%

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Young County	12,028	100.0%	100.0%	100.0%	6,016	99.9%	100.0%	99.9%
Zapata County	9,755	100.0%	100.0%	100.0%	4,435	40.4%	100.0%	40.4%
Zavala County	7,112	100.0%	100.0%	100.0%	4,871	51.9%	100.0%	51.9%
Utah								
Beaver County	2,632	100.0%	100.0%	100.0%	3,948	92.0%	99.8%	92.0%
Box Elder County	34,924	99.5%	100.0%	99.5%	20,022	76.2%	100.0%	76.2%
Cache County	102,620	98.2%	100.0%	98.2%	24,442	80.9%	100.0%	80.9%
Carbon County	13,152	100.0%	100.0%	100.0%	7,117	79.3%	100.0%	79.3%
Daggett County					980	41.3%	97.2%	41.3%
Davis County	346,681	98.1%	100.0%	98.1%	5,031	72.4%	100.0%	72.4%
Duchesne County	4,388	99.6%	100.0%	99.6%	15,576	57.1%	99.9%	57.1%
Emery County	1,887	100.0%	100.0%	100.0%	8,127	82.5%	99.9%	82.5%
Garfield County					5,080	98.4%	99.6%	98.1%
Grand County	4,224	99.8%	100.0%	99.8%	5,539	14.6%	89.7%	14.6%
Iron County	36,405	100.0%	100.0%	100.0%	16,370	89.1%	99.9%	89.1%
Juab County	5,420	99.8%	100.0%	99.8%	6,133	72.0%	97.9%	71.8%
Kane County	3,070	100.0%	100.0%	100.0%	4,639	91.8%	99.8%	91.8%
Millard County	2,828	98.2%	100.0%	98.2%	10,178	42.5%	99.3%	42.5%
Morgan County	3,708	99.4%	100.0%	99.4%	8,336	72.4%	96.2%	72.4%
Piute County					1,445	100.0%	100.0%	100.0%
Rich County					2,463	85.6%	99.3%	85.6%
Salt Lake County	1,135,070	99.2%	100.0%	99.2%	17,551	80.7%	100.0%	80.7%
San Juan County	2,281	74.7%	100.0%	74.7%	13,168	8.4%	92.1%	8.4%
Sanpete County	16,568	99.9%	100.0%	99.9%	14,055	87.4%	100.0%	87.4%
Sevier County	6,217	100.0%	100.0%	100.0%	15,322	95.0%	100.0%	95.0%
Summit County	23,071	91.5%	100.0%	91.5%	18,860	74.3%	99.2%	74.3%
Tooele County	49,423	99.3%	100.0%	99.3%	20,477	48.9%	99.9%	48.9%
Uintah County	14,560	99.9%	100.0%	99.9%	20,878	59.6%	99.7%	59.6%
Utah County	555,856	98.8%	100.0%	98.8%	66,339	38.5%	99.8%	38.5%
Wasatch County	20,231	95.9%	100.0%	95.9%	13,008	68.9%	99.7%	68.9%
Washington County	133,603	98.2%	100.0%	98.2%	38,089	94.6%	99.7%	94.6%
Wayne County					2,690	89.9%	99.8%	89.9%
Weber County	239,253	98.3%	100.0%	98.3%	17,103	88.8%	99.7%	88.8%
Vermont								
Addison County	7,894	99.6%	100.0%	99.6%	29,079	95.3%	100.0%	95.3%
Bennington County	12,123	99.7%	100.0%	99.7%	23,508	94.9%	99.6%	94.5%
Caledonia County	7,462	99.9%	100.0%	99.9%	22,840	76.8%	100.0%	76.8%

County or County Equivalent	Urban Areas				Rural Areas			
	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile
Chittenden County	119,747	98.1%	100.0%	98.1%	44,824	97.4%	100.0%	97.4%
Essex County					6,250	68.3%	95.2%	64.7%
Franklin County	13,705	99.8%	100.0%	99.8%	35,716	83.7%	99.7%	83.5%
Grand Isle County					7,090	65.5%	100.0%	65.5%
Lamoille County					25,300	89.2%	100.0%	89.2%
Orange County	797	100.0%	100.0%	100.0%	28,202	75.1%	100.0%	75.1%
Orleans County	3,798	99.9%	100.0%	99.9%	23,109	76.3%	99.9%	76.2%
Rutland County	22,145	99.7%	100.0%	99.7%	36,527	98.0%	100.0%	98.0%
Washington County	27,310	99.3%	100.0%	99.3%	30,830	88.5%	100.0%	88.5%
Windham County	13,238	99.7%	100.0%	99.7%	29,518	84.0%	100.0%	84.0%
Windsor County	13,215	97.3%	100.0%	97.3%	42,070	94.5%	100.0%	94.5%
Virginia								
Accomack County					32,412	62.3%	99.9%	62.2%
Albemarle County	56,116	95.5%	100.0%	95.5%	52,599	79.4%	99.8%	79.3%
Alexandria city	160,524	98.3%	100.0%	98.3%				
Alleghany County	6,988	99.6%	100.0%	99.6%	7,922	87.1%	92.0%	81.7%
Amelia County					13,013	63.2%	100.0%	63.2%
Amherst County	11,088	100.0%	100.0%	100.0%	20,578	99.7%	99.9%	99.6%
Appomattox County					15,836	84.2%	100.0%	84.2%
Arlington County	237,513	98.1%	100.0%	98.1%				
Augusta County	24,671	98.9%	100.0%	98.9%	50,785	68.0%	99.0%	67.7%
Bath County					4,292	67.1%	86.2%	55.8%
Bedford County	21,529	98.7%	100.0%	98.7%	63,106	83.3%	99.9%	83.3%
Bland County					6,293	100.0%	99.3%	99.3%
Botetourt County	11,815	99.6%	100.0%	99.6%	21,461	67.1%	98.3%	66.8%
Bristol city	16,475	100.0%	100.0%	100.0%	7	100.0%	100.0%	100.0%
Brunswick County	3,399	58.9%	100.0%	58.9%	12,985	15.5%	99.6%	15.5%
Buchanan County					21,221	100.0%	82.9%	82.9%
Buckingham County					16,999	44.6%	100.0%	44.6%
Buena Vista city	5,997	98.5%	100.0%	98.5%	240	91.3%	100.0%	91.3%
Campbell County	21,341	100.0%	100.0%	100.0%	33,632	93.6%	100.0%	93.6%
Caroline County	6,290	99.9%	100.0%	99.9%	24,480	30.6%	100.0%	30.6%
Carroll County	806	99.6%	100.0%	99.6%	28,830	61.5%	98.3%	61.0%
Charles City County					6,941	100.0%	100.0%	100.0%
Charlotte County					11,938	49.6%	99.9%	49.5%
Charlottesville city	48,116	98.6%	100.0%	98.6%				
Chesapeake city	221,411	98.4%	100.0%	98.4%	21,209	94.0%	100.0%	94.0%

County or County Equivalent	Urban Areas				Rural Areas			
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Chesterfield County	323,367	97.4%	100.0%	97.4%	25,179	95.8%	100.0%	95.8%
Clarke County	4,294	100.0%	100.0%	100.0%	10,229	100.0%	100.0%	100.0%
Colonial Heights city	17,833	98.7%	100.0%	98.7%				
Covington city	5,460	99.7%	100.0%	99.7%				
Craig County					5,064	72.4%	62.9%	55.3%
Culpeper County	18,509	98.7%	100.0%	98.7%	33,349	75.5%	100.0%	75.5%
Cumberland County	362	100.0%	100.0%	100.0%	9,447	15.4%	100.0%	15.4%
Danville city	38,900	99.6%	100.0%	99.6%	1,793	98.5%	100.0%	98.5%
Dickenson County					14,523	97.8%	91.1%	88.9%
Dinwiddie County	7,954	91.4%	100.0%	91.4%	20,575	38.9%	100.0%	38.9%
Emporia city	4,764	96.9%	100.0%	96.9%	357	98.6%	100.0%	98.6%
Essex County	2,456	98.7%	100.0%	98.7%	8,463	53.5%	100.0%	53.5%
Fairfax County	1,133,381	98.4%	100.0%	98.4%	17,405	99.3%	100.0%	99.3%
Fairfax city	24,565	97.2%	100.0%	97.2%				
Falls Church city	14,765	98.7%	100.0%	98.7%				
Fauquier County	28,585	99.1%	100.0%	99.1%	42,088	65.5%	100.0%	65.5%
Floyd County					15,795	68.3%	99.9%	68.3%
Fluvanna County	9,664	99.9%	100.0%	99.9%	17,117	75.1%	100.0%	75.1%
Franklin County	5,993	100.0%	100.0%	100.0%	50,202	88.1%	100.0%	88.1%
Franklin city	7,729	100.0%	100.0%	100.0%	284	100.0%	100.0%	100.0%
Frederick County	45,599	99.1%	100.0%	99.1%	42,750	66.3%	100.0%	66.3%
Fredericksburg city	28,731	92.6%	100.0%	92.6%	395	96.5%	100.0%	96.5%
Galax city	5,496	94.9%	100.0%	94.9%	927	99.0%	100.0%	99.0%
Giles County	5,711	100.0%	100.0%	100.0%	11,133	99.5%	99.5%	99.3%
Gloucester County	13,102	99.1%	100.0%	99.1%	24,247	91.4%	100.0%	91.4%
Goochland County	655	99.5%	100.0%	99.5%	22,584	64.7%	100.0%	64.7%
Grayson County	19	100.0%	100.0%	100.0%	15,612	100.0%	81.2%	81.2%
Greene County	9,280	99.4%	100.0%	99.4%	10,499	65.9%	99.6%	65.7%
Greensville County	1,211	83.4%	100.0%	83.4%	10,416	18.4%	100.0%	18.4%
Halifax County	7,479	97.0%	100.0%	97.0%	26,641	60.1%	100.0%	60.1%
Hampton city	133,958	97.6%	99.8%	97.4%	355	100.0%	100.0%	100.0%
Hanover County	62,997	99.4%	100.0%	99.4%	44,241	71.0%	100.0%	71.0%
Harrisonburg city	54,033	91.3%	100.0%	91.3%				
Henrico County	314,044	98.4%	100.0%	98.4%	15,215	94.8%	100.0%	94.8%
Henry County	19,012	99.0%	100.0%	99.0%	31,941	94.5%	100.0%	94.5%
Highland County					2,210	10.1%	78.9%	4.9%
Hopewell city	22,584	98.3%	100.0%	98.3%	12	41.7%	100.0%	41.7%

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Isle of Wight County	15,393	99.7%	100.0%	99.7%	21,560	74.5%	100.0%	74.5%
James City County	62,496	95.0%	100.0%	95.0%	13,887	90.5%	100.0%	90.5%
King George County	6,870	99.2%	100.0%	99.2%	19,705	90.8%	100.0%	90.8%
King William County	2,756	97.9%	100.0%	97.9%	14,183	5.5%	100.0%	5.5%
King and Queen County					7,042	18.9%	100.0%	18.9%
Lancaster County					10,783	71.9%	99.9%	71.9%
Lee County	112	100.0%	100.0%	100.0%	23,429	88.9%	98.0%	88.3%
Lexington city	7,135	96.4%	100.0%	96.4%				
Loudoun County	332,085	100.0%	100.0%	100.0%	74,748	100.0%	100.0%	100.0%
Louisa County					36,774	62.0%	100.0%	62.0%
Lunenburg County					12,086	29.8%	100.0%	29.8%
Lynchburg city	79,547	100.0%	100.0%	100.0%	2,572	100.0%	100.0%	100.0%
Madison County					13,295	100.0%	100.0%	100.0%
Manassas Park city	17,274	98.5%	100.0%	98.5%				
Manassas city	41,639	96.1%	100.0%	96.1%				
Martinsville city	12,902	98.8%	100.0%	98.8%				
Mathews County					8,802	93.7%	99.0%	92.7%
Mecklenburg County	6,909	99.2%	100.0%	99.2%	23,741	35.7%	100.0%	35.7%
Middlesex County					10,769	87.3%	100.0%	87.3%
Montgomery County	72,980	99.4%	100.0%	99.4%	26,002	85.1%	100.0%	85.1%
Nelson County					14,836	94.8%	99.7%	94.8%
New Kent County					22,387	76.6%	100.0%	76.6%
Newport News city	178,557	97.9%	100.0%	97.9%	69	91.3%	100.0%	91.3%
Norfolk city	244,076	95.6%	100.0%	95.6%				
Northampton County					11,735	70.7%	99.9%	70.7%
Northumberland County					12,147	67.9%	100.0%	67.9%
Norton city	3,853	97.2%	100.0%	97.2%	114	79.8%	100.0%	79.8%
Nottoway County	7,109	79.8%	100.0%	79.8%	8,311	31.9%	100.0%	31.9%
Orange County	14,643	98.5%	100.0%	98.5%	21,995	46.0%	100.0%	46.0%
Page County	4,768	99.2%	100.0%	99.2%	19,165	78.1%	100.0%	78.1%
Patrick County					17,673	40.6%	97.2%	39.1%
Petersburg city	30,882	98.6%	100.0%	98.6%	685	94.0%	100.0%	94.0%
Pittsylvania County	7,927	98.7%	100.0%	98.7%	53,022	58.2%	100.0%	58.2%
Poquoson city	11,404	99.1%	100.0%	99.1%	786	100.0%	100.0%	100.0%
Portsmouth city	94,632	98.0%	100.0%	98.0%				
Powhatan County	99	98.0%	100.0%	98.0%	29,090	81.6%	100.0%	81.6%

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Prince Edward County	7,853	99.0%	100.0%	99.0%	15,091	49.5%	100.0%	49.5%
Prince George County	16,547	91.8%	100.0%	91.8%	21,535	83.1%	100.0%	83.1%
Prince William County	440,607	98.4%	100.0%	98.4%	27,390	98.8%	100.0%	98.8%
Pulaski County	18,107	100.0%	100.0%	100.0%	15,959	82.6%	100.0%	82.6%
Radford city	17,725	100.0%	100.0%	100.0%	610	100.0%	100.0%	100.0%
Rappahannock County					7,252	96.1%	99.0%	95.1%
Richmond County					9,036	1.6%	100.0%	1.6%
Richmond city	228,774	94.5%	100.0%	94.5%				
Roanoke County	76,052	99.2%	100.0%	99.2%	18,018	97.0%	99.7%	96.7%
Roanoke city	99,905	98.3%	100.0%	98.3%	13	61.5%	100.0%	61.5%
Rockbridge County	1,896	99.1%	100.0%	99.1%	20,856	78.5%	99.9%	78.5%
Rockingham County	31,919	98.5%	100.0%	98.5%	49,322	71.4%	98.2%	71.3%
Russell County	3,082	99.6%	100.0%	99.6%	23,666	88.3%	99.9%	88.2%
Salem city	25,643	96.1%	100.0%	96.1%				
Scott County	3,708	94.1%	100.0%	94.1%	17,826	80.7%	96.4%	79.2%
Shenandoah County	14,315	98.6%	100.0%	98.6%	29,182	77.6%	100.0%	77.6%
Smyth County	7,727	94.8%	100.0%	94.8%	22,745	94.0%	96.4%	90.9%
Southampton County	376	100.0%	100.0%	100.0%	17,210	46.1%	100.0%	46.1%
Spotsylvania County	87,110	99.2%	100.0%	99.2%	47,126	88.5%	100.0%	88.5%
Stafford County	116,936	99.3%	100.0%	99.3%	33,023	95.8%	100.0%	95.8%
Staunton city	23,937	97.8%	100.0%	97.8%	983	92.4%	100.0%	92.4%
Suffolk city	69,529	99.5%	100.0%	99.5%	21,656	78.8%	100.0%	78.8%
Surry County					6,474	0.0%	100.0%	0.0%
Sussex County					11,237	33.2%	100.0%	33.2%
Tazewell County	20,005	99.9%	100.0%	99.9%	20,850	97.4%	98.5%	96.0%
Virginia Beach city	442,623	97.6%	100.0%	97.6%	7,566	97.8%	100.0%	97.8%
Warren County	19,282	95.1%	100.0%	95.1%	20,720	89.1%	100.0%	89.1%
Washington County	15,199	99.1%	100.0%	99.1%	39,202	99.2%	98.5%	97.7%
Waynesboro city	21,987	97.9%	100.0%	97.9%	637	89.8%	100.0%	89.8%
Westmoreland County	3,708	99.4%	100.0%	99.4%	14,122	86.4%	100.0%	86.4%
Williamsburg city	14,896	70.6%	100.0%	70.6%				
Winchester city	28,107	100.0%	100.0%	100.0%				
Wise County	15,902	98.4%	100.0%	98.4%	22,110	94.8%	99.3%	94.2%
Wythe County	7,027	99.7%	100.0%	99.7%	21,727	85.2%	99.9%	85.2%
York County	63,454	98.4%	99.9%	98.3%	4,391	96.2%	100.0%	96.2%
Washington								
Adams County	11,361	100.0%	100.0%	100.0%	8,396	81.9%	100.0%	81.9%

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Asotin County	20,609	98.3%	100.0%	98.3%	2,000	39.8%	82.7%	39.6%
Benton County	171,084	99.8%	100.0%	99.8%	30,789	89.3%	100.0%	89.3%
Chelan County	54,466	99.4%	100.0%	99.4%	22,570	79.6%	97.8%	79.0%
Clallam County	47,622	92.2%	100.0%	92.2%	29,115	55.0%	99.2%	55.0%
Clark County	407,127	100.0%	100.0%	100.0%	74,728	100.0%	99.4%	99.4%
Columbia County	2,526	100.0%	100.0%	100.0%	1,533	90.7%	88.6%	80.6%
Cowlitz County	74,782	99.6%	100.0%	99.6%	34,203	76.9%	97.2%	76.3%
Douglas County	29,115	100.0%	100.0%	100.0%	13,792	92.0%	99.3%	91.6%
Ferry County					7,649	99.6%	90.1%	89.8%
Franklin County	76,069	100.0%	100.0%	100.0%	18,272	99.8%	98.6%	98.4%
Garfield County					2,247	12.2%	99.6%	12.2%
Grant County	56,760	99.3%	100.0%	99.3%	40,567	58.6%	100.0%	58.6%
Grays Harbor County	43,948	99.1%	100.0%	99.1%	29,951	76.6%	99.5%	76.4%
Island County	43,363	97.9%	100.0%	97.9%	41,097	98.0%	99.5%	97.5%
Jefferson County	13,105	97.5%	100.0%	97.5%	18,624	66.7%	99.8%	66.7%
King County	2,123,195	98.3%	100.0%	98.2%	109,922	74.1%	97.2%	73.1%
Kitsap County	223,017	97.2%	99.7%	96.8%	46,786	93.7%	100.0%	93.7%
Kittitas County	25,820	99.6%	100.0%	99.6%	21,544	62.6%	98.9%	62.4%
Klickitat County	8,243	68.9%	100.0%	68.9%	13,864	35.0%	93.8%	32.6%
Lewis County	30,309	97.5%	100.0%	97.5%	49,292	61.7%	98.6%	60.8%
Lincoln County					10,740	50.3%	99.0%	49.7%
Mason County	22,951	98.6%	100.0%	98.6%	42,552	80.4%	99.7%	80.4%
Okanogan County	8,256	100.0%	100.0%	100.0%	33,876	93.5%	91.6%	86.8%
Pacific County	7,519	99.4%	100.0%	99.4%	14,517	78.7%	99.3%	78.4%
Pend Oreille County	2,215	100.0%	100.0%	100.0%	11,384	100.0%	98.9%	98.9%
Pierce County	820,495	99.4%	100.0%	99.3%	70,795	78.2%	98.4%	78.2%
San Juan County					17,128	89.6%	100.0%	89.6%
Skagit County	88,269	99.2%	100.0%	99.2%	39,936	80.1%	98.7%	79.6%
Skamania County					11,923	58.7%	95.8%	58.7%
Snohomish County	714,413	98.9%	100.0%	98.9%	100,470	72.8%	99.3%	72.8%
Spokane County	436,291	100.0%	100.0%	100.0%	78,324	99.9%	100.0%	99.9%
Stevens County	8,919	100.0%	100.0%	100.0%	36,340	100.0%	97.5%	97.5%
Thurston County	219,659	99.1%	100.0%	99.1%	66,757	92.9%	99.9%	92.9%
Wahkiakum County					4,425	19.9%	95.2%	19.2%
Walla Walla County	49,571	100.0%	100.0%	100.0%	11,347	99.3%	98.5%	97.9%
Whatcom County	161,277	99.9%	100.0%	99.9%	64,404	90.5%	98.8%	90.4%
Whitman County	33,278	92.6%	100.0%	92.6%	16,511	57.6%	99.8%	57.6%

County or County Equivalent	Urban Areas				Rural Areas			
	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile
Yakima County	189,184	97.3%	100.0%	97.3%	62,260	35.8%	97.5%	35.8%
West Virginia								
Barbour County	2,325	98.4%	100.0%	98.4%	14,210	84.6%	96.3%	83.1%
Berkeley County	78,109	98.6%	100.0%	98.6%	39,014	88.5%	100.0%	88.5%
Boone County	4,565	98.4%	100.0%	98.4%	17,386	98.0%	79.7%	78.0%
Braxton County					14,089	69.4%	93.5%	68.8%
Brooke County	13,328	99.1%	100.0%	99.1%	8,875	69.5%	100.0%	69.5%
Cabell County	72,829	97.9%	100.0%	97.9%	20,395	84.8%	99.9%	84.7%
Calhoun County					7,254	29.3%	91.4%	28.3%
Clay County					8,632	28.8%	87.5%	19.6%
Doddridge County					8,406	42.8%	84.6%	42.8%
Fayette County	18,841	97.8%	99.4%	97.3%	24,177	68.8%	97.1%	66.0%
Gilmer County	2,839	46.1%	100.0%	46.1%	5,187	34.7%	74.1%	31.4%
Grant County	2,463	99.9%	100.0%	99.9%	9,163	45.7%	97.8%	44.2%
Greenbrier County	10,523	98.4%	100.0%	98.4%	24,263	61.4%	93.7%	59.2%
Hampshire County					23,347	26.9%	98.7%	26.3%
Hancock County	20,208	98.8%	100.0%	98.8%	8,886	82.2%	100.0%	82.2%
Hardy County	2,629	100.0%	100.0%	100.0%	11,146	96.5%	87.9%	84.4%
Harrison County	42,689	98.8%	100.0%	98.8%	24,865	80.1%	96.6%	79.9%
Jackson County	8,174	100.0%	100.0%	100.0%	20,532	88.0%	99.0%	87.7%
Jefferson County	29,007	97.9%	100.0%	97.9%	27,804	99.3%	100.0%	99.3%
Kanawha County	134,678	99.6%	100.0%	99.5%	45,776	87.6%	97.9%	86.1%
Lewis County	4,956	100.0%	100.0%	100.0%	11,068	75.3%	88.5%	70.9%
Lincoln County					20,599	77.2%	73.6%	60.5%
Logan County	10,487	99.8%	96.3%	96.1%	22,120	91.8%	89.7%	83.0%
Marion County	32,721	99.7%	100.0%	99.7%	23,376	80.9%	99.1%	80.9%
Marshall County	16,511	97.2%	100.0%	97.2%	14,274	57.1%	98.0%	56.8%
Mason County	9,352	94.4%	100.0%	94.4%	17,366	42.6%	99.5%	42.6%
McDowell County	2,448	97.7%	100.0%	97.7%	15,775	83.3%	64.5%	57.8%
Mercer County	34,685	98.1%	100.0%	98.1%	24,446	91.5%	99.4%	91.3%
Mineral County	9,590	89.2%	100.0%	89.2%	17,350	56.6%	100.0%	56.6%
Mingo County	2,774	99.4%	100.0%	99.4%	21,011	82.6%	77.0%	67.0%
Monongalia County	75,599	62.5%	100.0%	62.5%	30,821	29.0%	97.6%	29.0%
Monroe County	1,535	98.6%	100.0%	98.6%	11,745	80.4%	88.2%	78.9%
Morgan County					17,787	69.4%	100.0%	69.4%
Nicholas County	3,059	100.0%	100.0%	100.0%	21,783	51.0%	93.4%	47.1%
Ohio County	32,117	98.9%	100.0%	98.9%	9,638	83.4%	100.0%	83.4%

County or County Equivalent	Urban Areas				Rural Areas			
	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile
Pendleton County					6,997	28.5%	52.6%	25.0%
Pleasants County	3,356	83.7%	100.0%	83.7%	4,151	41.9%	96.1%	41.9%
Pocahontas County					8,414	41.0%	37.8%	29.3%
Preston County	3,172	84.5%	100.0%	84.5%	30,667	53.8%	98.9%	53.2%
Putnam County	36,055	97.9%	100.0%	97.9%	20,627	66.9%	99.2%	66.9%
Raleigh County	44,592	99.3%	100.0%	99.3%	29,662	96.7%	91.8%	89.0%
Randolph County	10,851	99.9%	100.0%	99.9%	17,972	76.4%	86.8%	76.0%
Ritchie County					9,721	39.9%	88.8%	39.9%
Roane County	2,711	100.0%	100.0%	100.0%	11,221	29.5%	95.3%	28.2%
Summers County	3,408	78.8%	100.0%	78.8%	9,352	47.6%	99.9%	47.6%
Taylor County	6,698	97.4%	100.0%	97.4%	10,164	82.7%	99.5%	82.4%
Tucker County					6,955	60.6%	93.4%	59.6%
Tyler County	824	100.0%	100.0%	100.0%	7,922	24.5%	92.3%	24.5%
Upshur County	8,663	100.0%	100.0%	100.0%	15,752	80.6%	93.9%	79.9%
Wayne County	14,161	89.7%	100.0%	89.7%	25,783	81.8%	89.7%	75.1%
Webster County					8,285	64.1%	84.3%	61.1%
Wetzel County	6,798	99.5%	100.0%	99.5%	8,472	14.9%	62.7%	14.9%
Wirt County					5,829	48.9%	91.7%	48.9%
Wood County	61,756	99.9%	100.0%	99.9%	22,447	75.9%	99.8%	75.9%
Wyoming County	2,584	99.6%	97.8%	97.4%	18,202	92.1%	82.2%	77.1%
Wisconsin								
Adams County					20,339	65.8%	100.0%	65.8%
Ashland County	6,720	99.7%	100.0%	99.7%	8,880	45.0%	99.5%	44.9%
Barron County	15,115	99.9%	100.0%	99.9%	30,049	58.3%	99.9%	58.3%
Bayfield County					15,042	87.1%	99.0%	86.5%
Brown County	222,271	100.0%	100.0%	100.0%	41,093	98.9%	100.0%	98.9%
Buffalo County					13,125	95.6%	97.1%	92.9%
Burnett County					15,392	79.7%	100.0%	79.7%
Calumet County	35,885	100.0%	100.0%	100.0%	14,273	99.9%	100.0%	99.9%
Chippewa County	34,064	100.0%	100.0%	100.0%	30,065	68.1%	100.0%	68.1%
Clark County	2,734	99.8%	100.0%	99.8%	31,975	49.1%	100.0%	49.1%
Columbia County	22,296	99.3%	100.0%	99.3%	35,062	84.9%	100.0%	84.9%
Crawford County	6,101	97.6%	100.0%	97.6%	10,190	67.0%	89.5%	62.0%
Dane County	459,265	99.7%	100.0%	99.7%	83,089	87.4%	100.0%	87.4%
Dodge County	44,688	99.9%	100.0%	99.9%	43,159	77.9%	100.0%	77.9%
Door County	8,273	100.0%	100.0%	100.0%	19,335	86.3%	99.7%	86.1%
Douglas County	26,376	99.8%	100.0%	99.7%	16,832	48.8%	100.0%	48.8%

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Dunn County	18,068	99.5%	100.0%	99.5%	27,056	59.2%	100.0%	59.2%
Eau Claire County	79,453	99.9%	100.0%	99.9%	25,076	66.7%	100.0%	66.7%
Florence County					4,321	87.5%	99.6%	87.1%
Fond du Lac County	66,437	100.0%	100.0%	100.0%	36,619	97.6%	100.0%	97.6%
Forest County					8,990	46.4%	99.4%	46.4%
Grant County	17,528	96.5%	100.0%	96.5%	34,026	79.3%	98.6%	78.4%
Green County	14,526	99.8%	100.0%	99.8%	22,403	79.6%	99.9%	79.6%
Green Lake County	4,823	100.0%	100.0%	100.0%	14,093	59.6%	100.0%	59.6%
Iowa County	4,688	100.0%	100.0%	100.0%	19,083	79.6%	97.8%	78.5%
Iron County	1,801	100.0%	100.0%	100.0%	3,875	46.3%	99.7%	46.3%
Jackson County	5,566	80.7%	100.0%	80.7%	14,912	52.6%	99.2%	52.6%
Jefferson County	55,843	100.0%	100.0%	100.0%	29,279	67.7%	100.0%	67.7%
Juneau County	4,164	95.2%	100.0%	95.2%	22,452	67.8%	99.7%	67.8%
Kenosha County	150,771	100.0%	100.0%	100.0%	18,513	98.9%	100.0%	98.9%
Kewaunee County	5,593	100.0%	100.0%	100.0%	14,790	95.7%	100.0%	95.7%
La Crosse County	97,746	99.7%	100.0%	99.7%	20,484	78.8%	99.1%	78.0%
Lafayette County					16,665	69.5%	99.7%	69.4%
Langlade County	7,545	100.0%	100.0%	100.0%	11,722	89.9%	100.0%	89.9%
Lincoln County	12,430	98.8%	100.0%	98.8%	15,259	63.9%	100.0%	63.9%
Manitowoc County	47,571	100.0%	100.0%	100.0%	31,503	100.0%	100.0%	100.0%
Marathon County	76,690	100.0%	100.0%	100.0%	58,738	94.0%	100.0%	94.0%
Marinette County	15,025	100.0%	100.0%	100.0%	25,409	50.7%	99.8%	50.7%
Marquette County					15,434	76.9%	100.0%	76.9%
Menominee County					4,657	81.6%	100.0%	81.6%
Milwaukee County	946,343	100.0%	100.0%	100.0%	1,858	99.9%	100.0%	99.9%
Monroe County	19,182	100.0%	100.0%	100.0%	26,865	62.9%	99.9%	62.9%
Oconto County	7,037	100.0%	100.0%	100.0%	30,790	83.7%	100.0%	83.7%
Oneida County	8,784	100.0%	100.0%	100.0%	26,684	63.2%	100.0%	63.2%
Outagamie County	139,692	100.0%	100.0%	100.0%	47,652	94.4%	100.0%	94.4%
Ozaukee County	66,730	100.0%	100.0%	100.0%	22,413	100.0%	100.0%	100.0%
Pepin County					7,287	97.4%	100.0%	97.4%
Pierce County	19,168	96.6%	100.0%	96.6%	23,380	94.7%	100.0%	94.7%
Polk County	5,956	100.0%	100.0%	100.0%	37,640	66.1%	100.0%	66.1%
Portage County	45,099	99.9%	100.0%	99.9%	25,837	72.2%	100.0%	72.2%
Price County					13,397	38.6%	99.2%	38.5%
Racine County	172,142	100.0%	100.0%	100.0%	24,437	100.0%	100.0%	100.0%
Richland County	4,551	100.0%	100.0%	100.0%	12,826	35.0%	96.2%	34.9%

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Rock County	129,280	100.0%	100.0%	100.0%	33,841	81.6%	100.0%	81.6%
Rusk County	3,117	99.9%	100.0%	99.9%	11,030	36.9%	99.9%	36.9%
Sauk County	33,953	99.0%	100.0%	99.0%	30,292	70.6%	98.8%	70.2%
Sawyer County	2,575	100.0%	100.0%	100.0%	13,914	72.5%	98.7%	72.2%
Shawano County	10,271	100.0%	100.0%	100.0%	30,525	97.9%	100.0%	97.9%
Sheboygan County	82,643	100.0%	100.0%	100.0%	32,812	100.0%	100.0%	100.0%
St. Croix County	41,191	89.3%	100.0%	89.3%	48,498	49.7%	100.0%	49.7%
Taylor County	3,831	99.0%	100.0%	99.0%	16,580	37.1%	100.0%	37.1%
Trempealeau County	2,988	100.0%	100.0%	100.0%	26,454	92.1%	99.3%	91.6%
Vernon County	4,300	98.0%	100.0%	98.0%	26,485	80.7%	95.7%	77.3%
Vilas County					21,936	64.0%	100.0%	64.0%
Walworth County	67,671	98.7%	100.0%	98.7%	36,046	76.6%	100.0%	76.6%
Washburn County	2,647	100.0%	100.0%	100.0%	13,228	49.9%	100.0%	49.9%
Washington County	93,437	100.0%	100.0%	100.0%	42,252	100.0%	100.0%	100.0%
Waukesha County	362,627	100.0%	100.0%	100.0%	40,431	99.5%	100.0%	99.5%
Waupaca County	17,302	99.3%	100.0%	99.3%	33,826	74.5%	100.0%	74.5%
Waushara County	2,333	99.9%	100.0%	99.9%	21,930	54.6%	100.0%	54.6%
Winnebago County	147,264	100.0%	100.0%	100.0%	23,750	72.7%	100.0%	72.7%
Wood County	45,737	99.9%	100.0%	99.9%	27,318	62.8%	100.0%	62.8%
Wyoming								
Albany County	32,388	100.0%	100.0%	100.0%	6,213	65.7%	93.7%	65.2%
Big Horn County					11,881	67.2%	98.7%	66.4%
Campbell County	31,384	99.7%	100.0%	99.7%	14,756	75.7%	100.0%	75.7%
Carbon County	8,238	99.9%	100.0%	99.9%	6,733	71.5%	94.5%	70.0%
Converse County	5,940	100.0%	100.0%	100.0%	7,700	84.4%	99.6%	84.4%
Crook County					7,450	67.5%	99.4%	67.5%
Fremont County	19,046	99.2%	100.0%	99.2%	20,485	30.9%	89.7%	21.6%
Goshen County	7,129	97.9%	100.0%	97.9%	6,247	50.8%	99.9%	50.8%
Hot Springs County	3,102	100.0%	100.0%	100.0%	1,453	61.7%	97.3%	61.7%
Johnson County	4,250	99.8%	100.0%	99.8%	4,210	72.1%	99.9%	72.1%
Laramie County	75,514	99.5%	100.0%	99.5%	23,461	77.5%	100.0%	77.5%
Lincoln County	3,162	100.0%	100.0%	100.0%	16,271	78.2%	95.9%	75.9%
Natrona County	61,509	99.8%	100.0%	99.8%	17,606	63.8%	99.2%	63.8%
Niobrara County					2,388	19.2%	99.0%	19.2%
Park County	15,747	100.0%	100.0%	100.0%	13,577	37.6%	96.2%	37.6%
Platte County	3,440	93.5%	100.0%	93.5%	5,126	21.9%	99.8%	21.9%
Sheridan County	19,069	99.8%	100.0%	99.8%	11,164	74.5%	99.9%	74.5%

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Sublette County					9,813	80.9%	99.7%	80.9%
Sweetwater County	37,350	99.8%	100.0%	99.8%	5,701	49.2%	97.5%	48.4%
Teton County	11,767	99.9%	100.0%	99.9%	11,314	90.1%	97.1%	88.2%
Uinta County	11,247	100.0%	100.0%	100.0%	9,052	98.8%	99.6%	98.6%
Washakie County	4,874	100.0%	100.0%	100.0%	3,011	72.3%	96.7%	70.5%
Weston County	3,128	87.1%	100.0%	87.1%	3,839	61.6%	99.6%	61.6%
American Samoa								
Eastern District	18,006	100.0%	0.0%	0.0%	3,077	100.0%	0.0%	0.0%
Manu'a District					1,046	100.0%	0.0%	0.0%
Swains Island					16	0.0%	0.0%	0.0%
Western District	25,156	100.0%	0.0%	0.0%	3,525	100.0%	0.0%	0.0%
Guam	156,528	67.7%	100.0%	67.7%	11,244	34.7%	99.8%	34.7%
Commonwealth of the Northern Mariana Islands								
Rota Municipality					2,438	0.0%	96.4%	0.0%
Saipan Municipality	43,682	99.1%	100.0%	99.1%	2,848	98.0%	100.0%	98.0%
Tinian Municipality	2,546	0.0%	100.0%	0.0%	480	0.0%	88.8%	0.0%
Puerto Rico								
Adjuntas Municipio	9,505	70.2%	100.0%	70.2%	7,797	29.3%	100.0%	29.3%
Aguada Municipio	36,621	98.9%	100.0%	98.9%				
Aguadilla Municipio	50,555	100.0%	100.0%	100.0%	43	100.0%	100.0%	100.0%
Aguas Buenas Municipio	22,044	56.3%	100.0%	56.3%	2,804	22.7%	100.0%	22.7%
Aibonito Municipio	19,452	61.1%	100.0%	61.1%	2,691	28.2%	100.0%	28.2%
Arecibo Municipio	74,550	95.1%	99.8%	94.9%	7,564	79.4%	100.0%	79.4%
Arroyo Municipio	16,474	98.6%	100.0%	98.6%	695	77.7%	100.0%	77.7%
Añasco Municipio	22,346	96.0%	100.0%	96.0%	3,685	55.9%	100.0%	55.9%
Barceloneta Municipio	23,004	100.0%	99.7%	99.7%	500	100.0%	100.0%	100.0%
Barranquitas Municipio	26,578	72.5%	100.0%	72.5%	898	85.6%	100.0%	85.6%
Bayamón Municipio	170,456	92.6%	100.0%	92.6%	24	83.3%	100.0%	83.3%
Cabo Rojo Municipio	44,818	98.0%	99.8%	97.8%	2,299	75.2%	100.0%	75.2%
Caguas Municipio	123,327	93.4%	100.0%	93.4%	1,107	35.7%	100.0%	35.7%
Camuy Municipio	26,452	90.4%	100.0%	90.4%	4,051	75.9%	100.0%	75.9%
Canóvanas Municipio	43,229	85.1%	100.0%	85.1%	1,067	56.3%	100.0%	56.3%
Carolina Municipio	147,371	92.3%	100.0%	92.3%	290	65.5%	100.0%	65.5%
Cataño Municipio	23,240	72.8%	100.0%	72.8%	4	0.0%	0.0%	0.0%
Cayey Municipio	37,976	89.1%	100.0%	89.1%	4,373	14.5%	100.0%	14.5%
Ceiba Municipio	9,894	99.6%	100.0%	99.6%	1,124	69.7%	100.0%	69.7%

County or County Equivalent	Urban Areas				Rural Areas			
	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile
Ciales Municipio	9,396	100.0%	100.0%	100.0%	6,522	100.0%	99.4%	99.4%
Cidra Municipio	36,771	70.2%	100.0%	70.2%	1,517	47.4%	100.0%	47.4%
Coamo Municipio	30,429	96.4%	100.0%	96.4%	7,416	79.2%	100.0%	79.2%
Comerio Municipio	16,140	69.6%	100.0%	69.6%	2,458	39.6%	100.0%	39.6%
Corozal Municipio	30,466	70.4%	100.0%	70.4%	1,854	33.6%	100.0%	33.6%
Culebra Municipio					1,710	0.0%	99.3%	0.0%
Dorado Municipio	35,769	98.2%	100.0%	98.2%	10	0.0%	100.0%	0.0%
Fajardo Municipio	28,906	99.1%	100.0%	99.1%	793	63.9%	100.0%	63.9%
Florida Municipio	9,365	95.6%	100.0%	95.6%	1,964	84.1%	100.0%	84.1%
Guayama Municipio	35,520	97.1%	100.0%	97.1%	4,001	60.9%	100.0%	60.9%
Guayanilla Municipio	15,549	90.1%	99.6%	89.7%	2,170	41.9%	97.6%	41.9%
Guaynabo Municipio	83,774	85.7%	100.0%	85.7%	13	0.0%	100.0%	0.0%
Gurabo Municipio	45,890	82.5%	100.0%	82.5%	178	99.4%	100.0%	99.4%
Guánica Municipio	14,184	100.0%	100.0%	100.0%	1,367	89.2%	100.0%	89.2%
Hatillo Municipio	34,760	97.3%	100.0%	97.3%	4,066	79.7%	100.0%	79.7%
Hormigueros Municipio	15,428	100.0%	100.0%	100.0%	34	52.9%	100.0%	52.9%
Humacao Municipio	50,250	97.4%	99.9%	97.3%	282	57.4%	100.0%	57.4%
Isabela Municipio	37,540	95.7%	100.0%	95.7%	2,728	60.2%	100.0%	60.2%
Jayuya Municipio	9,308	93.0%	100.0%	93.0%	4,639	93.2%	98.4%	93.2%
Juana Díaz Municipio	42,015	99.1%	100.0%	99.1%	2,495	85.6%	100.0%	85.6%
Juncos Municipio	36,483	95.4%	100.0%	95.4%	1,240	72.0%	100.0%	72.0%
Lajas Municipio	17,763	98.1%	100.0%	98.1%	4,228	71.6%	100.0%	71.6%
Lares Municipio	17,891	83.1%	100.0%	83.1%	6,593	85.5%	100.0%	85.5%
Las Marías Municipio	2,670	79.0%	100.0%	79.0%	5,291	38.6%	100.0%	38.6%
Las Piedras Municipio	35,537	87.6%	100.0%	87.6%	921	26.5%	100.0%	26.5%
Loíza Municipio	24,465	99.3%	99.9%	99.2%	221	5.0%	100.0%	5.0%
Luquillo Municipio	15,870	98.8%	100.0%	98.8%	1,724	93.2%	100.0%	93.2%
Manatí Municipio	34,544	100.0%	100.0%	100.0%	2,849	100.0%	99.9%	99.9%
Maricao Municipio	2,366	39.7%	100.0%	39.7%	3,060	86.4%	100.0%	86.4%
Maunabo Municipio	7,776	87.4%	98.7%	86.1%	2,594	78.4%	100.0%	78.4%
Mayagüez Municipio	68,880	99.6%	100.0%	99.6%	3,106	82.0%	99.7%	82.0%
Moca Municipio	30,488	98.7%	100.0%	98.7%	4,421	87.2%	100.0%	87.2%
Morovis Municipio	26,532	91.9%	100.0%	91.9%	3,536	31.2%	100.0%	31.2%
Naguabo Municipio	23,161	97.9%	100.0%	97.9%	2,215	95.0%	100.0%	95.0%
Naranjito Municipio	27,209	63.7%	100.0%	63.7%				
Orocovis Municipio	12,620	76.2%	100.0%	76.2%	7,601	30.8%	95.9%	30.3%

County or County Equivalent	Urban Areas				Rural Areas			
	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile	Pop. Eval.	% of Pop. with Fixed 25/3 Mbps	% of Pop. with Mobile 5/1 Mbps	% of Pop. With Fixed and Mobile
Patillas Municipio	12,207	98.5%	99.8%	98.3%	4,103	83.0%	99.8%	82.8%
Peñuelas Municipio	16,321	95.0%	100.0%	95.0%	3,081	58.5%	100.0%	58.5%
Ponce Municipio	126,115	98.2%	100.0%	98.2%	7,076	83.6%	100.0%	83.6%
Quebradillas Municipio	20,931	96.9%	100.0%	96.9%	1,897	79.9%	100.0%	79.9%
Rincón Municipio	13,627	97.7%	98.8%	96.5%				
Río Grande Municipio	46,501	96.0%	100.0%	96.0%	1,388	90.7%	100.0%	90.7%
Sabana Grande Municipio	19,810	97.8%	100.0%	97.8%	1,931	49.5%	100.0%	49.5%
Salinas Municipio	23,590	89.0%	100.0%	89.0%	3,493	30.8%	100.0%	30.8%
San Germán Municipio	27,198	86.1%	100.0%	86.1%	3,031	51.0%	100.0%	51.0%
San Juan Municipio	320,967	98.9%	100.0%	98.8%				
San Lorenzo Municipio	31,721	61.2%	100.0%	61.2%	4,179	6.7%	100.0%	6.7%
San Sebastián Municipio	30,953	76.8%	100.0%	76.8%	4,699	57.9%	100.0%	57.9%
Santa Isabel Municipio	18,123	94.5%	100.0%	94.5%	2,914	81.6%	100.0%	81.6%
Toa Alta Municipio	71,094	64.9%	100.0%	64.9%				
Toa Baja Municipio	74,623	86.8%	100.0%	86.8%				
Trujillo Alto Municipio	63,746	82.3%	100.0%	82.3%				
Utua Municipio	13,936	97.0%	100.0%	97.0%	13,609	73.0%	98.7%	73.0%
Vega Alta Municipio	35,113	95.2%	100.0%	95.2%	693	99.4%	100.0%	99.4%
Vega Baja Municipio	48,129	96.1%	100.0%	96.1%	2,056	78.9%	100.0%	78.9%
Vieques Municipio	7,326	14.5%	99.4%	13.9%	1,038	40.1%	100.0%	40.1%
Villalba Municipio	18,208	91.7%	100.0%	91.7%	3,268	80.7%	100.0%	80.7%
Yabucoa Municipio	27,286	84.4%	100.0%	84.4%	4,872	79.4%	100.0%	79.4%
Yauco Municipio	27,041	91.5%	100.0%	91.5%	6,819	74.1%	97.4%	71.6%
U.S. Virgin Islands								
St. Croix Island	46,243	100.0%	99.9%	99.9%	4,630	100.0%	96.6%	96.6%
St. John Island	3,084	100.0%	92.1%	92.1%	1,108	100.0%	87.5%	87.5%
St. Thomas Island	51,085	100.0%	97.3%	97.3%	827	100.0%	88.3%	88.3%

APPENDIX 6

**Deployment of Fixed Terrestrial 25/3 Mbps Services and/or Mobile LTE with a Minimum
Advertised Speed of 5/1 Mbps by Tribal Lands and State
(As of December 31, 2018)**

	Total Pop	Fixed 25/3 Mbps		Mobile LTE 5/1 Mbps		Fixed 25/3 Mbps and Mobile LTE 5/1 Mbps		Fixed 25/3 Mbps or Mobile LTE 5/1 Mbps	
		Pop. with Access	% of Pop.	Pop. with Access	% of Pop.	Pop. with Access	% of Pop.	Pop. with Access	% of Pop.
Tribal Lands	4,038,815	2,921,375	72.3%	3,936,795	97.5%	2,913,756	72.1%	3,944,414	97.7%
Alaskan Villages	266,619	177,222	66.5%	205,284	77.0%	175,663	65.9%	206,843	77.6%
Hawaiian Homelands	33,784	30,115	89.1%	33,748	99.9%	30,115	89.1%	33,748	99.9%
Lower 48 States	1,129,348	642,523	56.9%	1,092,465	96.7%	637,566	56.5%	1,097,422	97.2%
Alabama	283	147	51.9%	283	100.0%	147	51.9%	283	100.0%
Alaska	1,543	0	0.0%	1,496	97.0%	0	0.0%	1,496	97.0%
Arizona	205,257	25,659	12.5%	181,589	88.5%	25,648	12.5%	181,600	88.5%
California	73,449	59,245	80.7%	72,267	98.4%	59,166	80.6%	72,346	98.5%
Colorado	16,738	11,627	69.5%	16,732	100.0%	11,627	69.5%	16,732	100.0%
Connecticut	354	313	88.4%	354	100.0%	313	88.4%	354	100.0%
Florida	5,184	4,142	79.9%	5,184	100.0%	4,142	79.9%	5,184	100.0%
Idaho	34,468	12,583	36.5%	33,966	98.5%	12,507	36.3%	34,042	98.8%
Iowa	934	652	69.8%	934	100.0%	652	69.8%	934	100.0%
Kansas	5,663	4,675	82.6%	5,663	100.0%	4,675	82.6%	5,663	100.0%
Louisiana	768	280	36.5%	768	100.0%	280	36.5%	768	100.0%
Maine	2,367	2,202	93.0%	2,367	100.0%	2,202	93.0%	2,367	100.0%
Massachusetts	75	73	97.3%	75	100.0%	73	97.3%	75	100.0%
Michigan	34,602	33,783	97.6%	34,598	100.0%	33,783	97.6%	34,598	100.0%
Minnesota	39,660	35,206	88.8%	39,490	99.6%	35,043	88.4%	39,653	100.0%
Mississippi	6,978	4,528	64.9%	6,978	100.0%	4,528	64.9%	6,978	100.0%
Montana	69,773	49,467	70.9%	64,363	92.2%	45,999	65.9%	67,831	97.2%
Nebraska	8,738	4,213	48.2%	8,735	100.0%	4,213	48.2%	8,735	100.0%
Nevada	14,455	5,686	39.3%	14,214	98.3%	5,686	39.3%	14,214	98.3%
New Mexico	148,407	51,983	35.0%	146,281	98.6%	51,910	35.0%	146,354	98.6%
New York	13,528	11,016	81.4%	13,528	100.0%	11,016	81.4%	13,528	100.0%
North Carolina	9,245	274	3.0%	9,245	100.0%	274	3.0%	9,245	100.0%
North Dakota	23,857	21,665	90.8%	23,813	99.8%	21,653	90.8%	23,825	99.9%
Oklahoma	89,701	68,703	76.6%	89,688	100.0%	68,703	76.6%	89,688	100.0%
Oregon	9,595	6,509	67.8%	9,541	99.4%	6,496	67.7%	9,554	99.6%
Rhode Island	3	2	66.7%	3	100.0%	2	66.7%	3	100.0%
South Carolina	1,030	1,030	100.0%	1,030	100.0%	1,030	100.0%	1,030	100.0%
South Dakota	65,367	45,454	69.5%	64,831	99.2%	45,086	69.0%	65,199	99.7%
Texas	1,916	1,215	63.4%	1,916	100.0%	1,215	63.4%	1,916	100.0%

	Total Pop	Fixed 25/3 Mbps		Mobile LTE 5/1 Mbps		Fixed 25/3 Mbps and Mobile LTE 5/1 Mbps		Fixed 25/3 Mbps or Mobile LTE 5/1 Mbps	
		Pop. with Access	% of Pop.	Pop. with Access	% of Pop.	Pop. with Access	% of Pop.	Pop. with Access	% of Pop.
Utah	37,124	18,259	49.2%	36,372	98.0%	18,255	49.2%	36,376	98.0%
Washington	142,077	114,535	80.6%	140,221	98.7%	114,007	80.2%	140,749	99.1%
Wisconsin	40,195	33,095	82.3%	40,189	100.0%	33,092	82.3%	40,192	100.0%
Wyoming	26,014	14,302	55.0%	25,751	99.0%	14,143	54.4%	25,910	99.6%
Statistical Areas	2,609,064	2,071,515	79.4%	2,605,298	99.9%	2,070,412	79.4%	2,606,401	99.9%
California	3,210	3,200	99.7%	3,210	100.0%	3,200	99.7%	3,210	100.0%
New York	2,711	1,566	57.8%	2,711	100.0%	1,566	57.8%	2,711	100.0%
Oklahoma	2,562,540	2,028,472	79.2%	2,558,796	99.9%	2,027,391	79.1%	2,559,877	99.9%
Washington	40,603	38,277	94.3%	40,581	99.9%	38,255	94.2%	40,603	100.0%

APPENDIX 7

Adoption Rate for Fixed Terrestrial Services in the United States, Including the U.S. Territories
(As of December 31, 2018)¹

	10/1 Mbps	25/3 Mbps	50/5 Mbps	100/10 Mbps	250/25 Mbps
United States	72.7%	64.6%	60.7%	45.7%	5.5%
Alabama	59.3%	51.0%	45.5%	39.6%	2.4%
Alaska	67.9%	52.9%	*	*	*
Arizona	74.3%	70.3%	56.0%	48.5%	12.0%
Arkansas	51.8%	42.4%	38.0%	28.0%	7.9%
California	79.6%	69.5%	65.6%	45.5%	3.0%
Colorado	75.7%	71.1%	65.0%	32.8%	3.8%
Connecticut	81.0%	67.9%	64.4%	44.9%	5.0%
Delaware	90.1%	87.3%	86.8%	48.0%	*
District of Columbia	84.6%	80.2%	78.9%	50.7%	*
Florida	85.4%	74.1%	69.2%	56.3%	2.4%
Georgia	73.7%	60.9%	55.9%	47.9%	5.9%
Hawaii	*	*	*	*	*
Idaho	53.6%	48.1%	25.3%	14.9%	0.8%
Illinois	71.9%	59.4%	55.4%	44.4%	1.5%
Indiana	65.1%	53.5%	50.1%	40.6%	2.2%
Iowa	56.8%	49.1%	43.0%	25.3%	2.2%
Kansas	65.6%	54.2%	47.9%	40.8%	11.4%
Kentucky	59.7%	48.7%	42.6%	38.8%	3.2%
Louisiana	62.7%	53.7%	46.2%	38.6%	8.2%
Maine	67.7%	55.2%	50.0%	44.2%	0.3%
Maryland	85.4%	80.3%	79.8%	46.7%	*
Massachusetts	86.9%	84.1%	83.2%	49.3%	6.0%
Michigan	69.7%	60.2%	55.6%	47.8%	1.0%
Minnesota	66.3%	59.3%	56.0%	33.6%	1.9%
Mississippi	48.2%	36.0%	27.7%	20.4%	1.8%
Missouri	60.6%	52.3%	49.5%	42.4%	7.2%
Montana	60.7%	54.0%	55.8%	*	*
Nebraska	65.0%	58.2%	48.7%	50.5%	7.9%
Nevada	81.7%	71.5%	60.6%	59.8%	12.3%
New Hampshire	83.3%	79.1%	77.6%	40.1%	4.3%
New Jersey	89.1%	86.5%	84.9%	60.9%	13.9%
New Mexico	50.4%	45.8%	40.7%	16.8%	1.4%
New York	79.5%	75.1%	72.1%	62.9%	9.7%
North Carolina	68.5%	62.6%	59.2%	52.0%	4.3%
North Dakota	73.1%	66.6%	57.8%	51.5%	5.3%

¹ *: Withheld to maintain confidentiality; NA: not available.

	10/1 Mbps	25/3 Mbps	50/5 Mbps	100/10 Mbps	250/25 Mbps
Ohio	69.2%	56.7%	46.8%	40.9%	3.2%
Oklahoma	58.2%	49.2%	41.7%	35.2%	10.3%
Oregon	71.5%	66.6%	61.4%	34.1%	2.1%
Pennsylvania	73.8%	68.1%	64.8%	37.5%	5.9%
Rhode Island	*	*	*	*	*
South Carolina	73.1%	61.1%	54.7%	49.4%	4.0%
South Dakota	71.2%	66.7%	56.6%	51.1%	3.4%
Tennessee	67.0%	58.0%	54.7%	47.2%	7.9%
Texas	70.8%	61.2%	56.7%	42.2%	6.4%
Utah	74.9%	66.3%	61.6%	29.1%	7.4%
Vermont	67.4%	59.8%	59.8%	31.5%	5.8%
Virginia	75.8%	72.9%	70.2%	49.7%	13.2%
Washington	76.0%	71.0%	68.0%	35.2%	2.9%
West Virginia	55.2%	50.8%	50.8%	27.6%	8.4%
Wisconsin	67.3%	56.1%	51.1%	48.2%	1.4%
Wyoming	63.8%	59.6%	52.8%	*	0.3%
American Samoa	*	*	0.0%	0.0%	NA
Guam	*	*	*	*	NA
Northern Mariana Islands	*	*	*	NA.	NA
Puerto Rico	20.9%	14.7%	*	*	4.5%
U.S. Virgin Islands	*	*	*	*	0.0%

APPENDIX 8

Deployment (Millions) of Fixed Services (Including Satellite) at Different Speed Tiers
in the United States

	2014		2015		2016		2017		2018	
	Pop.	%	Pop.	%	Pop.	%	Pop.	%	Pop.	%
10/1 Mbps										
United States	317.953	100.0%	320.289	100.0%	322.518	100.0%	325.627	100.0%	327.105	100.0%
Rural Areas	61.642	100.0%	62.261	100.0%	62.926	100.0%	63.710	99.9%	64.447	99.9%
Urban Areas	256.312	100.0%	258.028	100.0%	259.592	100.0%	261.917	100.0%	262.657	100.0%
Tribal Lands	3.933	100.0%	3.964	100.0%	3.991	100.0%	3.945	98.2%	3.991	98.8%
25/3 Mbps										
United States	284.246	89.4%	287.853	89.9%	307.637	95.4%	325.616	100.0%	327.087	100.0%
Rural Areas	37.174	60.3%	38.271	61.5%	50.997	81.0%	63.699	99.9%	64.434	99.9%
Urban Areas	247.072	96.4%	249.582	96.7%	256.641	98.9%	261.917	100.0%	262.653	100.0%
Tribal Lands	2.245	57.1%	2.290	57.8%	3.110	77.9%	3.942	98.1%	3.980	98.5%
50/5 Mbps										
United States	270.740	85.2%	283.329	88.5%	291.260	90.3%	298.242	91.6%	303.182	92.7%
Rural Areas	32.100	52.1%	35.316	56.7%	39.147	62.2%	42.312	66.3%	45.530	70.6%
Urban Areas	238.640	93.1%	248.013	96.1%	252.114	97.1%	255.930	97.7%	257.652	98.1%
Tribal Lands	1.913	48.6%	2.116	53.4%	2.269	56.9%	2.462	61.3%	2.639	65.3%
100/10 Mbps										
United States	201.894	63.5%	215.582	67.3%	244.110	75.7%	288.497	88.6%	296.243	90.5%
Rural Areas	16.472	26.7%	20.481	32.9%	25.781	41.0%	37.223	58.4%	40.388	62.6%
Urban Areas	185.423	72.3%	195.101	75.6%	218.329	84.1%	251.275	95.9%	255.855	97.4%
Tribal Lands	1.315	33.4%	1.669	42.1%	1.875	47.0%	2.198	54.7%	2.420	59.9%
250/25 Mbps										
United States	15.692	4.9%	67.912	21.2%	140.577	43.6%	190.041	58.3%	280.143	85.6%
Rural Areas	2.031	3.3%	5.460	8.8%	9.871	15.7%	17.991	28.2%	33.274	51.6%
Urban Areas	13.662	5.3%	62.452	24.2%	130.707	50.4%	172.050	65.7%	246.869	94.0%
Tribal Lands	0.048	1.2%	0.276	7.0%	1.330	33.3%	1.604	39.9%	1.837	45.5%
Pop. Evaluated	317.954	100.0%	320.289	100.0%	322.518	100.0%	325.716	100.0%	327.167	100.0%

APPENDIX 9

Deployment (Millions) of Fixed Wired Services at Different Speed Tiers in the United States

	2014		2015		2016		2017		2018	
	Pop.	%	Pop.	%	Pop.	%	Pop.	%	Pop.	%
10/1 Mbps										
United States	292.066	91.9%	295.639	92.3%	301.034	93.3%	307.556	94.4%	309.937	94.7%
Rural Areas	42.046	68.2%	43.614	70.1%	46.200	73.4%	49.652	77.8%	51.183	79.3%
Urban Areas	250.020	97.5%	252.025	97.7%	254.834	98.2%	257.904	98.5%	258.754	98.5%
Tribal Lands	2.570	65.3%	2.703	68.2%	2.855	71.5%	3.007	74.8%	3.143	77.8%
25/3 Mbps										
United States	281.425	88.5%	284.142	88.7%	291.675	90.4%	298.590	91.7%	301.856	92.3%
Rural Areas	35.464	57.5%	35.817	57.5%	39.035	62.0%	42.467	66.6%	44.463	68.9%
Urban Areas	245.961	96.0%	248.325	96.2%	252.640	97.3%	256.123	97.8%	257.393	98.0%
Tribal Lands	2.199	55.9%	2.230	56.3%	2.375	59.5%	2.564	63.8%	2.684	66.5%
50/5 Mbps										
United States	269.331	84.7%	281.713	88.0%	289.310	89.7%	296.285	91.0%	299.315	91.5%
Rural Areas	31.536	51.2%	34.480	55.4%	37.793	60.1%	40.965	64.2%	42.610	66.1%
Urban Areas	237.796	92.8%	247.234	95.8%	251.517	96.9%	255.320	97.5%	256.705	97.7%
Tribal Lands	1.897	48.2%	2.091	52.7%	2.236	56.0%	2.410	60.0%	2.528	62.6%
100/10 Mbps										
United States	200.806	63.2%	214.347	66.9%	242.304	75.1%	286.842	88.1%	294.488	90.0%
Rural Areas	16.268	26.4%	20.063	32.2%	24.936	39.6%	36.264	56.9%	39.177	60.7%
Urban Areas	184.537	72.0%	194.284	75.3%	217.367	83.7%	250.577	95.7%	255.311	97.2%
Tribal Lands	1.315	33.4%	1.669	42.1%	1.841	46.1%	2.178	54.2%	2.375	58.8%
250/25 Mbps										
United States	12.514	3.9%	64.595	20.2%	139.721	43.3%	189.263	58.1%	279.648	85.5%
Rural Areas	1.994	3.2%	5.316	8.5%	9.762	15.5%	17.670	27.7%	33.041	51.2%
Urban Areas	10.520	4.1%	59.279	23.0%	129.960	50.1%	171.593	65.5%	246.607	93.9%
Tribal Lands	0.047	1.2%	0.276	7.0%	1.305	32.7%	1.602	39.9%	1.827	45.2%
Pop. Evaluated	317.954	100.0%	320.289	100.0%	322.518	100.0%	325.716	100.0%	327.167	100.0%

**STATEMENT OF
COMMISSIONER MICHAEL O'RIELLY**

Re: *Inquiry Concerning Deployment of Advanced Telecommunications Capability to All Americans in a Reasonable and Timely Fashion*, GN Docket 19-285, 2020 Broadband Deployment Report.

The finding in this year's report—that advanced telecommunications capability *is being deployed* to all Americans in a reasonable and timely fashion—is undoubtedly accurate. Nonetheless, it bears repeating (for the third year in a row) that this finding does not suggest that we have succeeded in our mission to bring broadband access to all Americans, and I personally will not rest until that work is done. Nor does it suggest that the dataset we rely on is perfect or even satisfactory. Form 477 data is obviously extremely flawed and problematically applied as a basis for distributing USF funding, as recognized by Congress in the Broadband DATA Act, and this point is especially clear in light of the huge discrepancies between this item's charts and the entire premise underlying the Rural 5G Fund Notice concurrently under the Commission's consideration. However, we should be crystal clear that Form 477 data is being used here for the limited purpose of tracking progress from year-to-year, per our statutory obligation. Otherwise, we risk unfairly conflating two very separate issues.

While I am pleased that we continue to rely on a realistic and text-based reading of section 706, I wish we would have extended that pragmatism to our evaluation framework. It's obvious that mobile and fixed broadband are increasingly converging into a single market, and I am dismayed that for yet another year, we have opted to rehash our tired, siloed approach rather than pursue a technology neutral analysis. Especially given recent calls for the FCC to support wireless hotspots to improve access for distance-learning during the COVID-19 pandemic, including to provide two-way video-based applications, it does seem that there's broad recognition of the services' substitutability, even among the most die-hard proponents of universal fiber-to-the-home. And, that's not to mention the characteristics of 5G service, which obliterate any basis for maintaining our outdated approach.

Nonetheless, I do appreciate that the item makes a sincere effort to discuss the substitutability issue more comprehensively than previous iterations of this report, and more evenhandedly compares mobile to fixed, rather than exclusively focusing on the shortcomings of the former compared to the latter. While I think we are still unnecessarily preoccupied with whether the two technologies are interchangeable for every potential use and function, this language at least moves the needle in the right direction.

Finally, I would have preferred to include data from the satellite industry in our main report, rather than relegate it to the appendices. While I appreciate that satellite providers face capacity constraints, limited capacity is by no means unique to satellite technology. Here, again, I would have preferred to take a technology neutral approach rather than engage in a somewhat arbitrary line-drawing process.

Despite the concerns I have identified, I support our overall effort and vote to approve.

**STATEMENT OF
COMMISSIONER BRENDAN CARR**

Re: *Inquiry Concerning Deployment of Advanced Telecommunications Capability to All Americans in a Reasonable and Timely Fashion*, GN Docket 19-285, 2020 Broadband Deployment Report.

The momentum behind America's 5G leadership is now unmistakable. As this report shows, we have turned the page on the failed broadband policies of the previous administration, and the private sector has responded. America's broadband builders are now trenching conduit, pulling fiber, and installing new high-speed cell sites at an unprecedented clip. While we are far from the finish line, the significant progress we're making in closing the digital divide is welcome news.

Regulations matter. And for years, the FCC pursued partisan policies that only made it harder for the private sector to bring more broadband to more Americans. From 2014 to 2017, for instance, the deployment of high-speed mobile wireless services in rural communities stagnated.¹ Our pro-deployment policies have enabled the private sector to turn that around, and new builds are once again on the rise.

Internet speeds are also increasing. Since the end of 2016, the percentage of Americans with access to 250/25 Mbps has nearly doubled, from 43.6% to 85.6% at the end of 2018.² Data from third-party monitors show that Internet speeds are up roughly 85% since year-end 2016. Internet providers have also built out more miles of high-speed fiber in 2019 than ever before—smashing prior records. The digital divide has narrowed substantially—closing by about 30% between year-end 2016 and 2018. Competition has also increased, with the percentage of Americans having more than two options for 25/3 Mbps high-speed services increasing 52% over that same time period.

Results like these should put the partisan effort to seize greater government control of the Internet in the rear view window. Indeed, it is more clear than ever before that the prior FCC's years-long effort to apply heavy-handed utility-style regulation to the Internet elevated politics over policy. It slowed down the important work needed to close the digital divide and held back competition. As the current pandemic highlights, we should all come together around policies that will encourage the accelerated buildout of high-speed networks in every community in this country.

¹ Figure 2b.

² Figure 4.

**STATEMENT OF
COMMISSIONER JESSICA ROSENWORCEL,
DISSENTING**

Re: *Inquiry Concerning Deployment of Advanced Telecommunications Capability to All Americans in a Reasonable and Timely Fashion*, GN Docket 19-285, 2020 Broadband Deployment Report.

This report is baffling.

We are in the middle of a pandemic. So much of modern life has migrated online. As a result, it has become painfully clear there are too many people in the United States who lack access to broadband. In fact, if this crisis has revealed anything, it is the hard truth that the digital divide is very real and very big.

But you'll find no evidence acknowledging that in today's Broadband Progress Report from the Federal Communications Commission. Instead, you'll find a glowing assessment that all is well. According to this rosy report the nation's broadband efforts are all good. They are proceeding in a reasonable and timely fashion and they are reaching all Americans.

This is just not right.

Check the headlines decrying the lack of broadband in this country. Look at Congress constantly pressing for new programs to extend the reach of internet access in the United States. See governors establishing committees and support systems to expand broadband to those who are not connected. Take note of mayors everywhere clamoring for better broadband so their communities have a fair shot at digital age success.

Then look all around us. Because this crisis is exposing what has long been obvious: too many Americans across the country do not have access to broadband.

In this disaster, Parking-Lot Wi-Fi has become a thing. So many people in so many cars sitting in front of shuttered libraries and coffee shops, just to pick up a free wi-fi signal. It is the only way they have to connect.

Schools have shuttered and more than 50 million students have been told to head online for class. But millions of them can't get there because they fall into the Homework Gap and lack internet access at home. It's not just a problem in rural America, it's a challenge in urban America too, where in cities like Detroit more than half of the students live in homes without broadband.

The use of telemedicine has exploded as doctors and patients seek safe ways to deliver and secure care without the risk of viral transmission. But in rural communities this is often not possible. Changes to laws in Iowa, for instance, recently expanded telehealth in the state but also demonstrated that one in five Iowans lack the bandwidth required for video consultations.

Businesses everywhere are trying to hold on in this economy. But if connectivity is limited so are revenue opportunities. With more than seven million small businesses at risk of closing during this crisis, we need to ensure they have every tool at their disposal to reach consumers safely and effectively.

All of this adds up. It means this report ignores the lived experiences of so many people struggling to get access to the broadband in they need right now for work, education, healthcare, and more. On top of this, the agency's methods for concluding that broadband deployment is reasonable are seriously flawed.

For starters, the FCC concludes that there are only 18 million people in the United States without access to broadband. This number wildly understates the extent of the digital divide in this country. That's because if a broadband provider tells the FCC that it can offer service to a single customer in a census block, the agency assumes that service is available throughout. The result is data that

systematically overstates service across the country. Other studies have shown that the true number of people without broadband access is 42 million or even as high as 162 million.

Making matters worse, the FCC relies on information submitted by providers without a system to independently verify the data. Last year, this allowed one company overstate its service coverage by tens of millions of people. This year, one of the country's largest providers found that it too had overstated its coverage in thousands of areas.

So it's no wonder the FCC's broadband data has been the subject of nonstop criticism from consumers and Congress. In fact, just last month Congress passed the Broadband DATA Act directing the FCC to clean up its act and develop data and maps that reflect the true state of broadband access in the United States. But you'll find no evidence of that effort in this report. Instead, the FCC ignores this mandate from Congress and presses forward with data that have repeatedly been shown to be wrong.

The FCC is also using a broadband standard that is too low for a nation that has moved so much of life online. Many households with multiple users are video calling, streaming entertainment, and searching online at the same time. Yet the FCC's report uses a download standard of 25 megabits per second that it adopted more than five years ago. We need to set audacious goals if we want to do big things. With so many of our nation's providers rolling out gigabit service, it's time for the FCC to adjust its baseline upward, too. We need to reset this standard to 100 megabits per second. While we're at it we need to revisit our thinking about upload speeds. At present, our standard is 3 megabits per second. But this asymmetrical approach is dated. We need to recognize that with extraordinary changes in data processing and cloud storage, upload speeds should be rethought.

Last but not least, the FCC fails to meaningfully discuss big issues that contribute to the digital divide. It refuses to consider price and affordability. It barely mentions digital literacy. If the agency is serious about living up to its duty under the law to report on the state of broadband in this country, these omissions render its conclusions suspect.

Crises can reveal a lot. This pandemic has demonstrated conclusively that broadband is no longer nice-to-have. It's need-to-have. What we also need is an honest accounting from the FCC about the state of broadband in this country. Because when we get to the other side of this crisis, we need to rebuild our economy and closing the digital divide is the right place to start. I wish that this report could contribute to that effort. I wish it could provide accurate data to inform our action. I wish it could provide a meaningful template for broadband for all. But it does not. I dissent.

**STATEMENT OF
COMMISSIONER GEOFFREY STARKS,
DISSENTING**

Re: *Inquiry Concerning Deployment of Advanced Telecommunications Capability to All Americans in a Reasonable and Timely Fashion*, GN Docket 19-285, 2020 Broadband Deployment Report.

The FCC's limited progress on new broadband maps has left the Commission without high-quality, nationwide data on the deployment of Advanced Telecommunications Capability. It is a shame that we are once again relying on Form 477 data, with all its inaccuracies. At this point, Form 477's problems are well documented, acknowledged throughout the telecommunications industry, and recognized by bipartisan majorities in both houses of Congress. And they are recounted in the 2018 and 2019 iterations of this report. We are all well versed in Form 477's flaws.

The fact that this report must rely on the unreliable should be reflected in its conclusions. I cannot approve the report's confident declaration that this data constitutes "compelling evidence" that Advanced Telecommunications Capability is being deployed on a reasonable and timely basis. We do not have a strong basis for that conclusion, and we should say so. I therefore respectfully dissent.

This report, which I have called the "State of the Union" for the digital divide, calls closing the digital divide "the Commission's top priority." I wholeheartedly agree with that aspiration, which has not always been evident in the Commission's actions. Earlier this year, the Commission committed more than \$16 billion to bringing broadband to our hardest to reach areas through the Rural Digital Opportunity Fund. But we know that the digital divide is not just a rural issue. Census Bureau surveys show that three times as many households in urban areas remain unconnected as in rural areas.¹ When it comes to making sure all Americans can access affordable, high-quality broadband, we have a long way to go.

In light of the struggles many Americans have faced over the last six weeks, it is especially perplexing and disturbing that the majority would cast this report as a victory lap. When public health requires social distancing and even quarantine, closing the digital divide becomes central to our safety and economic security. But too many Americans cannot access online work, medical help, and distance learning because broadband is too expensive or not available. As we enact emergency efforts to respond to the COVID-19 crisis, I will continue to call on the Commission to speed the work of correcting our broadband deployment data and to develop better data and policy on affordability—critical steps toward a lasting solution to the digital divide.

I thank the many staff members from across the Commission who contributed to the creation of this report.

¹ See Blair Levin and Larry Downes, *Cities, not rural areas, are the real Internet deserts*, N.Y. Times (Sept. 13, 2019), <https://www.washingtonpost.com/technology/2019/09/13/cities-not-rural-areas-are-real-internet-deserts/>.